

1 ✓
URBAN DISTRICT OF NORTHFLEET



CERTAIN MATTERS
CONCERNING
PUBLIC HEALTH
1967-1971

(PART 2)

STATISTICS OF
COMMUNICABLE
DISEASE

URBAN DISTRICT OF NORTHFLEET

Report on certain matters concerning Public Health

The duties towards which this report contributes were outlined in Part 1. The report is in four parts: 1 VITAL STATISTICS: 2 STATISTICS OF COMMUNICABLE DISEASE: 3 SANITARY CIRCUMSTANCES: 4 COMMENTARY AND SUMMARY. Part 1 has already been submitted and referred to years 1967-69. Part 2 has been expanded to cover years 1967-71.

PART 2 - STATISTICS OF COMMUNICABLE DISEASE

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TABLE XXV PREVALENCE OF INFECTIOUS DISEASE Northfleet U.D.
 Notifiable diseases (other than tuberculosis) according to date of receipt

1967	All ages	Under one	1-4	5-9	10-14	15-24	25-44	45-64	65+
Whooping cough	10	1	1	3	4	-	-	-	-
Measles	149	7	88	53	1	-	-	-	-
Pneumonia	1	-	1	-	-	-	-	-	-
	160	8	90	56	5	-	-	-	-
1968									
Whooping cough	1	-	-	1	-	-	-	-	-
Measles	34	1	21	11	-	1	-	-	-
Typhoid fever	1	-	-	-	1	-	-	-	-
Scarlet fever	2	-	1	1	-	-	-	-	-
Infective jaundice	5	-	-	1	1	2	-	1	-
	43	1	22	14	2	3	-	1	-
1969									
Whooping cough	1	1	-	-	-	-	-	-	-
Measles	97	3	51	41	1	1	-	-	-
Infective jaundice	2	-	-	2	-	-	-	-	-
Dysentery	3	-	1	1	-	-	1	-	-
	103	4	52	44	1	1	1	-	-

The following communicable diseases were reported from schools:-

	Scabies	Mumps	Impetigo	Rubella	Ringworm	Chickenpox	Tonsillitis	Veruccas
1967	15	41	17	3	1	2	1	11
1968	6	-	-	-	-	3	-	-
1969	-	-	-	-	-	1	-	-

MEASLES - By ward and month, according to date of notification															
	East			West			South-East			South			Northfleet U.D.		
	1967	1968	1969	1967	1968	1969	1967	1968	1969	1967	1968	1969	1967	1968	1969
Jan	21	-	-	7	-	1	9	-	1	6	-	1	43	-	3
Feb	7	-	-	6	-	-	16	-	-	25	-	-	54	-	-
Mar	3	-	1	18	-	3	4	-	-	5	-	1	30	-	5
Apr	1	5	-	3	-	2	-	-	1	-	-	1	4	5	4
May	1	2	2	1	-	-	5	-	6	-	-	8	7	2	16
June	-	-	9	-	-	5	-	-	12	-	2	11	-	2	37
July	-	3	4	-	5	6	6	-	1	-	-	9	-	8	20
Aug	-	4	1	-	1	-	-	-	-	-	5	-	-	10	1
Sept	-	-	1	-	-	-	-	-	-	-	-	-	-	-	1
Oct	-	-	-	-	2	-	-	-	-	-	-	1	-	2	1
Nov	-	-	2	-	-	-	-	-	-	-	-	1	-	-	3
Dec	-	2	-	-	2	1	-	-	4	-	1	1	-	5	6
	33	16	20	35	10	18	34	-	25	36	8	34	138	34	97

MEASLES - BIENNIAL CYCLE, according to date of notification

	November	December	January	February	March	April	Total for 6 months					
1958-1959	-	-	1	23	72	43	139					
1959-1960	-	-	-	-	-	-	-					
1960-1961	-	2	29	151	100	56	338					
1961-1962	8	-	-	-	-	-	8					
1962-1963	40	53	49	45	13	4	204					
1963-1964	-	-	-	-	1	2	3					
1964-1965	15	39	92	136	57	13	352					
1965-1966	-	-	-	-	-	2	2					
1966-1967	27	50	43	54	30	4	208					
1967-1968	-	-	-	-	-	5	5					
1968-1969	-	5	3	-	5	4	17					
1969-1970	3	6	2	1	1	4	17					
Total for 12 months:	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969
	9	223	2	400	131	125	83	315	96	138	34	97

TABLE XXV

PREVALENCE OF INFECTIOUS DISEASE

Northfleet U.D.

Notifiable diseases (other than tuberculosis) according to date of receipt.

	All ages	Under one	1-4	5-9	10-14	15-24	25-44	45-64	65+
1970									
Measles	87	1	46	39	1	-	-	-	-
Scarlet Fever	3	-	2	1	-	-	-	-	-
Infective jaundice	2	-	-	2	-	-	-	-	-
Food poisoning	1	-	1	-	-	-	-	-	-
	93	1	49	42	1	-	-	-	-
1971									
Whooping cough	12	3	7	2	-	-	-	-	-
Measles	55	5	22	26	2	-	-	-	-
Scarlet Fever	1	-	1	-	-	-	-	-	-
Infective jaundice	4	-	-	1	-	2	1	-	-
Acute meningitis	3	-	-	1	-	-	1	1	-
	75	8	30	30	2	2	2	1	-

The following communicable diseases were reported from schools:-

	Scabies	Mumps	Impetigo	Rubella	Chickenpox
1970	7	1	2	3	2
1971	5	-	1	-	2

MEASLES - By ward and month, according to date of notification.

	East		West		South-East		South		Northfleet U.D.	
	1970	1971	1970	1971	1970	1971	1970	1971	1970	1971
January	-	1	2	-	-	2	-	3	2	6
February	1	1	-	-	-	-	-	-	1	1
March	1	-	-	-	-	-	-	-	1	-
April	1	-	3	-	-	-	-	-	4	-
May	1	-	3	3	1	-	-	1	5	4
June	5	2	23	18	-	-	1	-	29	20
July	3	2	5	6	-	2	1	-	9	10
August	-	-	-	-	-	-	-	-	-	-
September	2	1	1	-	-	-	2	-	5	1
October	-	-	-	-	-	-	2	-	2	-
November	1	-	1	-	-	-	5	2	7	2
December	-	-	1	-	-	-	20	-	21	-
	15	7	39	27	1	4	31	6	86	44

MEASLES - BIENNIAL CYCLE. According to date of notification (continued from page 40)

November December January February March April Total for 6 months

1970-1971	7	21	2	1	1	4	36
1971-1972	2	-	6	1	-	-	9

Total for 12 months

1970 = 86 1971 = 44

TABLE XXVI

MEASLES NOTIFICATIONS 1945-71

Northfleet, U.D.

By quarters-years ending June 30th

			Under 1 yr	1 & 2	3 & 4	5-9	Total 0 - 9	10-14	15+	Others	Total all ages
1945	1st qtr		2	14	18	23	47	2	1	-	50
	2nd "		3	18	19	32	72	1	1	7	81
			5	32	27	55	119	3	2	7	131
1946	3rd "		-	-	5	4	9	1	-	-	10
	4th "		-	-	-	-	-	-	-	-	-
	1st "		-	1	-	-	1	-	-	-	1
	2nd "		-	-	1	-	1	-	-	-	1
			-	1	6	4	11	1	-	-	12
1947	3rd "		-	-	2	-	2	-	-	-	2
	4th "		-	1	2	-	3	-	-	-	3
	1st "		2	11	20	24	57	2	-	2	61
	2nd "		2	12	36	47	97	-	-	2	99
			4	24	60	71	159	2	-	4	165
1948	3rd "		2	1	3	4	10	-	-	-	10
	4th "		-	-	-	-	-	-	-	-	-
	1st "		1	-	2	3	6	-	-	-	6
	2nd "		-	2	6	2	10	1	-	-	11
			3	3	11	9	26	1	-	-	27
1949	3rd "		-	1	1	-	2	-	-	-	2
	4th "		-	1	1	1	3	-	-	-	3
	1st "		2	7	9	6	24	-	-	-	24
	2nd "		9	59	101	63	232	1	-	16	249
			11	68	112	70	261	1	-	-	278
1950	3rd "		1	16	30	23	70	-	1	1	72
	4th "		-	-	-	-	-	-	-	-	-
	1st "		-	-	-	-	-	-	-	-	-
	2nd "		-	6	19	32	57	4	-	3	64
			1	22	49	55	127	4	1	4	136
1951	3rd "		1	6	7	13	27	-	-	6	33
	4th "		-	1	-	-	1	-	-	-	1
	1st "		1	1	1	1	4	-	-	-	4
	2nd "		3	38	62	100	203	3	-	-	206
			5	46	70	114	235	3	-	6	244
1952	3rd "		5	36	42	42	125	-	-	-	125
	4th "		-	-	-	-	-	-	-	-	-
	1st "		-	-	-	-	-	-	-	-	-
	2nd "		-	1	-	2	3	-	-	-	3
			5	37	42	44	128	-	-	-	128
1953	3rd "		-	-	2	1	3	-	-	-	3
	4th "		2	10	14	43	69	-	-	-	69
	1st "		7	27	46	82	162	-	2	-	164
	2nd "		1	2	7	10	20	1	-	-	21
			10	39	69	136	254	1	2	-	257

TABLE XXVI

MEASLES NOTIFICATIONS 1945-71 (continued)

By quarters-years ending June 30th

Northfleet U.D.

		Under 1 yr.	1 and 2	3 and 4	5-9	Total 0-9	10-14	15+	Others	Total all ages
1954	3rd qtr.	-	1	2	-	3	-	-	-	3
	4th "	-	-	-	-	-	-	-	-	-
	1st "	-	-	-	-	-	-	-	-	-
	2nd "	1	-	-	-	1	-	-	-	1
		1	1	2	-	4	-	-	-	4
1955	3rd "	-	-	-	-	-	-	-	-	-
	4th "	1	-	-	-	1	-	-	-	1
	1st "	-	1	2	2	5	-	-	-	5
	2nd "	9	71	97	261	438	3	1	1	443
		10	72	99	263	444	3	1	1	449
1956	3rd "	1	13	9	6	29	-	-	-	29
	4th "	-	1	-	-	1	-	-	-	1
	1st "	-	-	-	-	-	-	-	-	-
	2nd "	2	2	-	3	7	1	-	-	8
		3	16	9	9	37	1	-	-	38
1957	3rd "	-	-	-	2	2	-	1	-	3
	4th "	-	6	6	23	35	-	-	-	35
	1st "	-	6	8	8	22	-	-	-	22
	2nd "	6	17	27	63	113	2	1	-	116
		6	29	41	96	172	2	2	-	176
1958	3rd "	-	16	24	44	84	1	1	-	86
	4th "	-	-	-	-	-	-	-	-	-
	1st "	-	-	-	-	-	-	-	-	-
	2nd "	-	-	3	1	4	-	-	-	4
		-	16	27	45	88	1	1	-	90
1959	3rd "	1	1	1	2	5	-	-	-	5
	4th "	-	-	-	-	-	-	-	-	-
	1st "	1	8	24	44	77	-	-	-	77
	2nd "	1	33	39	65	138	1	-	-	139
		3	42	64	111	220	1	-	-	221
1960	3rd "	-	5	-	2	7	-	-	-	7
	4th "	-	-	-	-	-	-	-	-	-
	1st "	-	-	-	-	-	-	-	-	-
	2nd "	-	-	-	-	-	-	1	-	1
		-	5	-	2	7	-	1	-	8
1961	3rd "	-	-	-	-	-	-	-	-	-
	4th "	-	-	1	-	1	-	-	-	1
	1st "	2	49	64	126	241	10	4	-	255
	2nd "	3	31	39	48	121	1	-	-	122
		5	80	104	174	363	11	4	-	378
1962	3rd "	1	3	-	1	5	-	-	-	5
	4th "	-	7	4	7	18	-	-	-	18
	1st "	-	-	-	-	-	-	-	-	-
	2nd "	-	-	-	-	-	-	-	-	-
		1	10	4	8	23 *	-	-	-	23

* 22 in Tables

- an error of one therein

TABLE XXVI MEASLES NOTIFICATIONS 1945-71 (continued)

By quarters-years ending June 30th

Northfleet U.D.

		Under 1 yr.	1 and 2	3 and 4	5-9	Total 0-9	10-14	15+	Others	Total all ages
1963	3rd qtr.	1	4	7	10	22	-	-	-	22
	4th "	2	19	28	50	99	-	1	-	100
	1st "	3	23	37	47	110	4	1	-	115
	2nd "	-	1	8	2	11	3	-	-	14
		6	47	80	109	242	7	2	-	251
1964	3rd "	-	2	1	-	3	-	-	-	3
	4th "	-	2	-	-	2	-	-	-	2
	1st "	-	-	1	-	1	-	-	-	1
	2nd "	1	1	1	2	5	-	-	-	5
		1	5	3	2	11	-	-	-	11
1965	3rd "	4	7	12	5	28	-	-	-	28
	4th "	3	13	19	14	49	-	-	-	49
	1st "	9	70	87	125	291	1	-	-	292
	2nd "	2	6	6	3	17	-	-	-	17
		18	96	124	147	385	1	-	-	386
1966	3rd "	-	2	2	1	5	-	-	-	5
	4th "	-	-	1	-	1	-	-	-	1
	1st "	-	-	-	-	-	-	-	-	-
	2nd "	1	3	2	-	6	-	-	-	6
		1	5	5	1	12	-	-	-	12
1967	3rd "	-	8	5	10	23	-	1	-	24
	4th "	-	13	27	26	66	-	-	-	66
	1st "	4	37	40	53	134	1	-	-	135
	2nd "	3	5	6	-	14	-	-	-	14
		7	63	78	89	237	1	1	-	239
1968	3rd "	-	-	-	-	-	-	-	-	-
	4th "	-	-	-	-	-	-	-	-	-
	1st "	-	-	-	-	-	-	-	-	-
	2nd "	1	4	2	2	9	-	-	-	9
		1	4	2	2	9	-	-	-	9
vaccination introduced										
1969	3rd "	-	5	6	7	18	-	-	-	18
	4th "	-	4	-	2	6	-	1	-	7
	1st "	2	2	2	-	6	-	-	-	6
	2nd "	1	12	13	30	56	-	1	-	57
		3	23	21	39	86	-	2	-	88
1970	3rd "	-	3	11	9	23	-	-	-	23
	4th "	-	2	6	2	10	1	-	-	11
	1st "	-	2	2	1	5	-	-	-	5
	2nd "	-	10	9	17	36	1	-	-	37
		-	17	28	29	74	2	-	-	76
1971	3rd "	1	5	5	4	15	-	-	-	15
	4th "	-	4	9	17	30	-	-	-	30
	1st "	2	2	1	1	6	1	-	-	7
	2nd "	1	4	4	10	19	-	-	-	19
		4	15	19	32	70	1	-	-	71
	3rd "	2	5	5	14	26	1	-	-	27
	4th "	-	-	1	1	2	-	-	-	2

TABLE XXVII TUBERCULOSIS

Northfleet U.D.

(a) Respiratory

(i) Notifications

NOTIFICATIONS in last ten years

1962	1963	1964	1965	1966	1967	1968	1969	1970	1971
12	7	8	5	4	3	4	3	7	4

NOTIFICATIONS BY AGE

1967	Total	0-9	10-14	15-19	20-24	25-34	35-44	45-54	55-64	65+
Males	2	-	-	1	-	-	-	1	-	-
Females	1	-	-	-	-	1	-	-	-	-
	3	-	-	1	-	1	-	1	-	-
1968										
Males	2	-	-	-	-	-	-	1	-	1
Females	2	-	-	1	-	-	-	-	1	-
	4	-	-	1	-	-	-	1	1	1
1969										
Males	7	1	-	2	-	1	-	1	1	1
Females	3	-	-	-	1	-	1	-	-	1
	10	1	-	2	1	1	1	1	1	2
1970										
Males	4	-	-	1	-	1	1	-	1	-
Females	3	-	-	-	1	-	-	-	2	-
	7	-	-	1	1	1	1	-	3	-
1971										
Males	3	-	-	-	-	-	-	1	2	-
Females	1	-	-	-	-	-	1	-	-	-
	4	-	-	-	-	-	1	1	2	-

Details of notification were as follows:-

	Sex	Age	Classification	Remarks
1967	M	54	B1	French polisher, died 1971.
	F	29	B2	Housewife, had tuberculosis in India, immigrant.
	M	18	B2	Motor mechanic, recovered 1972.
1968	M	66	B2	Retired 'bus driver.
	M	50	B2	Labourer, died 1971.
	F	57	B3	Housewife.
	F	15	B2	Factory worker (assembly work), immigrant. Brother also notified later.
1969	M	17	B2	Shoe factory worker, immigrant, brother of the above.
	M	5	A1	School child.
	M	25	B1	Lithographer.
	M	72	B2	Retired motor engineer, died 1970. (Brother died of silicosis 30 years before)
	F	76	A1	Wife of the above motor engineer.
	M	48	B2	Pipe fitter.
	M	64	B2	Heavy lorry driver.
	M	17	A1	Student, immigrant.
	F	21	B2	Factory worker (on assembly work), contact of 1968 girl.
	F	39	B2	Machine minder.

TABLE XXVII

TUBERCULOSIS (continued)

Northfleet U.D.

(a) Respiratory (continued)

	Sex	Age	Classification	Remarks
1970	F	23	B2	Paper stacker, mother a recovered case.
	M	18	B2	Factory hand, immigrant.
	M	30	B1	Furnaceman, immigrant.
	F	55	A1	Housewife.
	M	44	B	Fitters mate.
	F	56	B	Housewife, died 1970.
	M	60	B2	Meat salesman, no food handling.
1971	F	40	B2	Teacher, tuberculin testing of children requested.
	M	60	B3	Attendant Medway Water Board. Not so occupied while under treatment.
	M	46	B2	Engineer.
	M	64		Died. Revised diagnosis: lung cancer.

A = non-infectious B = infectious 1, 2, 3 = lobes affected.

CASES OF RESPIRATORY TUBERCULOSIS ON THE TUBERCULOSIS REGISTER ON DECEMBER 31ST.

	Male	Female	Persons		Male	Female	Persons
1962	122	89	211	1967	76	55	131
1963	107	75	182	1968	40	31	71
1964	99	77	176	1969	43	31	74
1965	89	64	153	1970	37	33	70
1966	82	61	143	1971	31	35	66

CHANGES IN THE REGISTER IN 1967, 1968, 1969, 1970 and 1971

Additions: 1967 1968 1969 1970 1971						Removals: 1967 1968 1969 1970 1971					
New notifications	3	4	10	7	4	Lost sight of	-	13	-	-	-
Came into district	2	9	-	-	2	Left district	2	7	-	3	2
Restored to register	-	-	1	-	-	Died	2	-	1	5	4
Increase, to correct numerical error	-	-	-	1	-	Recovered	13	53	7	4	4
Reclassified as respiratory	-	-	-	-	1		17	73	8	12	10
	5	13	11	8	7						

TABLE XXVII

TUBERCULOSIS (continued)

Northfleet U.D.

(ii)

(a) Respiratory (continued)

MASS X-RAY SERVICE
(including Gravesend)Over 45 service Routine service
Northfleet

Gravesend

From:

- (a) Gen. Practitioners
(b) M.Os. of Health
(c) Chest Physician
(d) Industrial M.Os.
(e) Public

Number X-rayed			M	F	M	F	M	F		M	F
	1967	1st	1253	-	-	-	-	-	-	-	-
		2nd	1656	-	906	1410	1920	285	-	-	
	1968	1st	1516	-	-	-	-	-	-	-	
		2nd	1311	-	-	-	-	-	-	-	
	1969	1st	948	19	-	-	25	209	-	-	
		2nd	-	-	-	-	43	42	-	-	
	1970	1st	-	-	1132	1682	1813	366	(a)	38	36
		2nd	-	-	-	-	-	-	(b)	8	3
	1971	1st	-	-	-	-	-	-	(e)	259	524
			-	-	-	-	-	-	(a)	118	115
		2nd	-	-	-	-	-	-	(b)	54	13
			-	-	-	-	-	-	(c)	2	0
			-	-	-	-	-	-	(d)	7	1
			-	-	-	-	-	-	(e)	556	824
Active Tuberculosis	1967	1st	0	-	-	-	-	-	-	-	
		2nd	0	-	1	0	1	0	-	-	
	1968	1st	0	-	-	-	-	-	-	-	
		2nd	0	-	-	-	-	-	-	-	
	1969	1st	-	-	-	-	-	-	-	-	
		2nd	-	-	-	-	-	-	-	-	
	1970	1st	-	-	1	1	-	-	(a)	0	0
		2nd	-	-	-	-	-	-	(b)	0	0
	1971	1st	-	-	-	-	-	-	(e)	0	1
			-	-	-	-	-	-	(a)	1	1
		2nd	-	-	-	-	-	-	(b)	0	0
			-	-	-	-	-	-	(c)	0	0
			-	-	-	-	-	-	(d)	0	0
			-	-	-	-	-	-	(e)	0	0
Inactive Tuberculosis	1967	1st	4	-	-	-	-	-	-	-	
		2nd	4	-	5	9	4	1	-	-	
	1968	1st	14	-	-	-	-	-	-	-	
		2nd	11	-	-	-	-	-	-	-	
	1969	1st	1	1	-	-	-	1	-	-	
		2nd	-	-	-	-	-	1	-	-	
	1970	1st	-	-	11	-	4	8	(a)	1	1
		2nd	-	-	-	-	-	-	(b)	0	0
	1971	1st	-	-	-	-	-	-	(e)	0	6
			-	-	-	-	-	-	(a)	8	2
		2nd	-	-	-	-	-	-	(b)	0	0
			-	-	-	-	-	-	(c)	0	0
			-	-	-	-	-	-	(d)	0	0
			-	-	-	-	-	-	(e)	2	6
Total X-rayed 1967-71			6684	19	2038	3092	3801	902	(a) M	(b,c,d,e) F	
									156	151	
Active tuberculosis found			-	-	2	1	1	-	1	1	
									-	1	

(ii) MASS X-RAY (continued)

Northfleet and Gravesend

Total referred by general practitioners	307
Active cases of tuberculosis found	2
Rate per 1000 X-rayed	6.5 ‰

Total other than above and over 45 service 12,134
(the latter includes re-examinations)

Active cases of tuberculosis found	5
Rate per 1000 X-rayed	0.4 ‰

England 1969

Rate active cases tuberculosis found	
Referred by general practitioners	3.1 ‰
Others	0.6 ‰

The difference between the national and local rates can be explained by the play of chance in small numbers.

In the above surveys lung cancer was found as follows:-

1967 Over 45 service	4 males	1970 Routine service	1 female
1967 Routine service	2 males	1970 Sent by general practitioners	1 male
1968 Over 45 service	2 males		
1969 Over 45 service	none	1971 Sent by general practitioners	2 males
1969 Routine service	none		

Results of six monthly over-45 lung cancer X-ray Service
(introduced November 1961 and ceased May 1969)

Year	Age of cases found	Interval since previous X-ray	Results
1962	61	First exam.	Unfit for investigation. Heart disease. Death assumed.
	50	6 months	Referral delayed. Outcome unknown.
1963	61	12 months	Pneumonectomy May 1965. Result unknown.
	69	18 months	Referred to hospital. Result unknown.
	62	6 months	Resection. Died 16 months later.
	57	6 months	Died 26 months later. Diagnosis unconfirmed.
1964	62	6 months	Pneumonectomy. Returned to work. Died.
	62	6 months	Inoperable. Death assumed.
1965	54	12 months	Secondaries ++ Death assumed.
	62	6 months	Lobectomy. Secondaries in brain. Death assumed.
1966	62	6 months	Pneumonectomy. Result unknown.
	60	12 months	Inoperable. Death assumed.
	53	6 months	" " "
1967	61	6 months	Pneumonectomy. Referral delayed. Died.
	64	18 months	Lobectomy. Died.
	66	24 months	Lobectomy. Result unknown.
	55	6 months	Inoperable. Death assumed.
1968	61	First exam.	Lobectomy. Died 2 months later.
	48	6 months	Inoperable. Death assumed.

TABLE XXVII TUBERCULOSIS (continued)

Northfleet U.D.

(a) Respiratory (continued)

(iii)

DEATH OF PERSONS SUFFERING FROM TUBERCULOSIS 1967-71

Persons removed from the tuberculosis register by death:-

Year born	Year notified	Year died	Found to be infectious	Sex	Cause of death Underlying	Contributory
<u>1967</u>						
1898	1962	1967	No	M	Heart failure Diabetic nephropathy and pneumonia Diabetes mellitus	-
1909	1959	1967	No	F	Hepatoma (liver failure)	-
<u>None removed by death in 1968</u>						
<u>1969</u>						
1915	1943	1969		M	Malignancy G.I. tract	-
<u>1970</u>						
1901	1956	1970	Yes	M	Bronchopneumonia Cor pulmonale Ch. bronchitis and emphysema	-
1908	1946	1970		M	Bronchopneumonia Rt. carcinoma of lung	Pulmonary tuberculosis
1914	1970	1970	Yes	F	Carcinomatosis Carcinoma of pylorus	-
1885	1954	1970	Yes	M	Carcinoma of right lower alveolus and right cheek with metastases in cervical glands	-
1897	1969	1970	Yes	M	Bronchopneumonia Pulmonary fibrosis Pulmonary tuberculosis	Generalised osteo- arthritis
<u>1971</u>						
1912	1967	1971	Yes	M	Resp. failure Emphysema/bronchitis Scleroderma/tuberculosis Underlying cause later amended to Respiratory tuberculosis	-
1903	1959	1970	Yes	M	Carcinoma (R) bronchus	-
1918	1968	1971	Yes	M	Coronary thrombosis	-
1907	1971	1971		M	Carcinomatosis Lung cancer (notification withdrawn)	Bronchopneumia

1967-71 No deaths from respiratory tuberculosis occurred of persons who were not on the register.

TABLE XXVII TUBERCULOSIS (a) Respiratory(continued) Northfleet U.D.
(iv) CAUSES OF DEATH OF PERSONS ON RESPIRATORY TUBERCULOSIS REGISTER 1958-71

	Resp. tub.	Bronch -itis	Other Resp. dis.	Lung Cancer	Isch.Degen. & Cong. Ht. diseases	All other diseases	Un- known	Total removed by death	Mean age at death
	<u>Underlying cause</u>								
1958	-	-	-	1	-	2	-	3	62
1959	-	-	1	1	1	1*	-	4	57
1960	2	1	-	-	-	1	-	4	69
1961	2	1	-	1	-	-	-	4	58
1962	1	3	1	-	-	-	1	6	59
1963	-	1	-	-	1	-	-	2	66
1964	1	-	-	-	2	-	-	3	64
1965	-	1	-	-	-	1	-	2	71
1966	1	1	-	-	-	1	-	3	66
1967	-	-	-	-	-	2	-	2	64
1968	-	-	-	-	-	-	-	-	-
1969	-	-	-	-	-	1	-	1	54
1970	1	1	-	1	-	2	-	5	67
1971	1	-	-	1** + 1	1	-	-	4	62
1958-71	9	9	2	1** + 5	5	11	1	43	

* Abdominal lymph node tuberculosis

** Notification withdrawn

	<u>Contributory cause</u>							
1959	-	1	1	-	-	-	-	2
1960	1	-	-	-	-	-	-	1
1962	1	1	-	-	-	1	-	3
1963	1	-	-	-	-	-	-	1
1964	1	-	-	-	-	-	-	1
1965	1	-	-	-	-	-	-	1
1970	1	-	-	-	-	1	-	2
1971	-	-	1	-	-	-	-	1
	6	2	2	-	-	2	-	12

The following numbers of deaths from respiratory tuberculosis occurred of persons not on the register.

1959	1962	1963	1964
1	1	1	1

(v) COMPARISON WITH OTHER POPULATIONS

	Resp. Tub.	Bronch -itis	Lung cancer	Other causes	Total off register by death
*Dartford Residential Rural District 1958-69	16 (26%)	9 (15%)	11 (18%)	25 (41%)	61 (100%)
*Dartford Town 1958-69	8 (18%)	5 (11%)	6 (13%)	26 (58%)	45 (100%)
Northfleet U.D. 1958-71	9 (21%)	9 (21%)	5 (12%)	20 (47%)	43 (101%)
Total	33 (22%)	23 (15%)	22 (15%)	71 (48%)	149 (100%)
Long-stay Hospitals 1958-69					
Dartford M.B.	15	1	-	8	24
Dartford R.D.	10	-	-	4	14
	25 (66%)	1 (3%)	- (0%)	12 (31%)	38 (100%)

* Terms used to indicate population outside long-stay hospitals.

TABLE XXVII TUBERCULOSIS (a) Respiratory(continued)

Northfleet U.D.

(vi)
GRAVESEND CHEST CLINIC (relates to whole area served, Gravesend, Northfleet etc.)

RESPIRATORY CASES UNDER CARE AT 31ST DECEMBER

ALL CASES

	Men	Women	Age 0-14	Persons	Sputum + in year
1964	367	220	31	618	18
1965	476	307	30	813	20
1966	591	423	28	1042	13
1967	600	446	28	1074	25
1968	591	448	23	1062	11
1969	573	439	24	1036	4
1970	561	436	24	1021	4
1971	559	443	26	1028	10

NEW CASES

	Not bacteriologically confirmed			
1964	5	7	2	14
1965	25	15	0	40
1966	13	11	0	24
1967	17	24	0	41
1968	20	13	1	34
1969	4	4	2	10
1970	5	4	1	10
1971	3	5	-	8

	Bacteriologically confirmed			
1964	7	6	0	13
1965	8	7	0	15
1966	7	6	0	13
1967	11	8	-	19
1968	6	4	-	10
1969	5	4	1	10
1970	5	5	-	10
1971	8	6	2	16

PERSONS EXAMINED AS CONTACTS:

	1964	1965	1966	1967	1968	1969	1970	1971
Attendances								
Examined for first time	596	774	480	598	719	633	558	593
Had attended in previous years	221	244	329	302	194	144	199	231
Re-attended during year	263	270	174	207	152	178	177	155
Total examinations	1080	1288	983	1107	1065	955	934	979
Contacts of cases notified during year	180	160	126	276	106	188	171	240
" " " " prior to year	?	1128	857	831	959	767	763	739

Contacts found tuberculous

Contacts of cases notified during year	?	2	1	3	-	3	-	1
" " " " prior to year	?	2	4	1	1	1	3	1
Total								
Age 0-15	2	-	-	-	-	2	1	-
Age over 15	2	4	5	4	1	2	2	2

(vi) TABLE XXVII TUBERCULOSIS (a) Respiratory (continued) Northfleet U.D.
GRAVESEND CHEST CLINIC (continued)

Tuberculin reaction of contacts attending for first time:

Age	1964	1965	1966	Negative		1968	1969	1970	1971
				1967	1968				
0- 5	116	116	82	119	148	182	193	133	
6-14	78	41	28	47	53	29	43	48	
15-20	17	14	8	14	12	9	4	7	
21-25	16	9	3	5	1	3	3	6	
26-35	9	12	4	8	9	7	1	1	
Over 35	5	8	3	2	1	1	-	1	
Total	241	200	128	195	224	231	244	196	

				Positive					
				1967	1968				
0-	-	-	-	1	-	-	-	2	
1- 3	3	-	-	7	-	6	5	7	
4- 6	1	2	2	7	12	7	5	4	
7-14	10	16	11	29	34	15	19	6	
Over 14	105	129	51	64	72	44	42	49	
Total	119	147	64	108	118	72	71	68	

Number of B.C.G. vaccinations:

1964	1965	1966	1967	1968	1969	1970	1971
220	222	178	201	256	208	257	213

(i) TABLE XXVII TUBERCULOSIS (b) Non-respiratory
GRAVESEND CHEST CLINIC (relates to whole area served Gravesend, Northfleet etc)
NON-RESPIRATORY CASES UNDER CARE AT 31ST DECEMBER

ALL CASES		Men	Women	Age 0-14	Persons
1964		17	32	5	54
1965		17	33	3	53
1966		20	38	4	62
1967		21	38	3	62
1968		17	39	5	61
1969		13	28	5	46
1970		18	29	6	53
1971		19	30	6	55
NEW CASES					
1964		3	5	0	8
1965		2	5	0	7
1966		5	6	0	11
1967		3	1	-	4
1968		4	4	3	11
1969		1	4	1	6
1970		7	2	1	10
1971		3	1	-	4

(ii) (b) Non-respiratory (continued)

NOTIFICATIONS in last twelve years

1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971
-	4	1	3	1	1	1	-	1	3	1	3

NEW NOTIFICATIONS

	Sex	Age	Classi- fication	Location of disease	Remarks
<u>1968</u>	F	30	B.	Cervical adenitis	Housewife, immigrant
<u>1969</u>	M	54	A.	Cervical gland	Mill worker, immigrant
	M	48	A.	Sinus from kidney	Office worker
	F	46	B.	Cervical glands	Housewife
<u>1970</u>	M	18	B.	Cervical glands	Private, H.M. Forces
<u>1971</u>	F	35	A.	*Intestine, lungs	Housewife, immigrant
	M	29	A.	Cervical spine	Foreman, building site, immigrant
	M	31	A.	Axillary glands	Machine operator, immigrant

A = Organism not found

B = Organism found

* This case was transferred to the respiratory tuberculosis register four months after notification after the lungs were found to be tuberculous.

CASES OF NON-RESPIRATORY TUBERCULOSIS ON THE REGISTER ON DECEMBER 31ST.

	Male	Female	Persons		Male	Female	Persons
1960	6	11	17	1966	1	14	15
1961	6	14	20	1967	1	13	14
1962	1	12	13	1968	2	13	15
1963	1	12	13	1969	4	10	14
1964	1	13	14	1970	4	8	12
1965	1	14	15	1971	5	8	13

CHANGES IN THE REGISTER

Additions:	1967	1968	1969	1970	1971	Removals:	1967	1968	1969	1970	1971
New notifications	-	1	3	1	3	Lost sight of	-	1	-	-	-
Came into district	-	1	1	-	-	Left district	-	-	-	-	-
Restored to reg.	-	-	2	-	-	Died	-	-	1	-	-
						Recovered	-	-	6	1	1
	-	2	6	1	3		-	1	7	1	1

CAUSE OF DEATH OF PERSONS ON NON-RESPIRATORY REGISTER.

No person was removed from the register by death in 1967, 1968, 1970, 1971.
The data of the one person whose name was so removed in 1969 were:

Year born	Year notified	Sex	Organ affected	Cause of death Underlying	Contributory
1898	1960	F	Thigh abscess	Bronchopneumonia Immobility Parkinson's syndrome	Rheumatoid arthritis

TABLE XXVIII MEASLES - Notifications at ages 0 - 9 years

Northfleet U.D.

Cohort Born	Pop.	19	Year ending June 30th																									Total	age 0-9
		-46	-47	-48	-49	-50	-51	-52	-53	-54	-55	-56	-57	-58	-59	-60	-61	-62	-63	-64	-65	-66	-67	-68	-69	-70	-71		
1970	463																											4	0%
1969	479																											10	2%
1968	483																											5	3%
1967	472																											11	7%
1966	512																											8	10%
1965	508																											7	11%
1964	497																											7	18%
1963	491																											6	20%
1962	463																											6	28%
1961	427																											6	29%
1960	422																											5	32%
1959	349																											7	38%
1958	339																											-	42%
1957	336																											-	42%
1956	298																											-	49%
1955	293																											-	48%
1954	307																											-	46%
1953	329																											-	49%
1952	268																											-	52%
1951	294																											-	56%
1950	245																											-	59%
1949	302																											-	61%
1948	320																											-	57%
1947	399																											-	52%
1946	381																											-	49%
1945	282																											-	72%
1944	329																											-	44%
1943	253																											-	47%
1942																												-	
1941																												-	
1940																												-	
1939																												-	
1938																												-	
1937																												-	
1936																												-	
		11	159	26	261	127	235	128	254	4	444	37	172	88	220	7	363	23	242	11	385	12	237	9	86	74	70	3685	

AGED 10 YEARS
OR OVER

NOT YET BORN

TABLE XXIX MEASLES - Notifications and vaccinations at ages 0 - 9 years

Notified	Years ending June 30th																
	1955	1956	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971
444	37	172	88	220	7	363	22	242	11	385	12	237	9	86	74	70	

Population aged 0-9 years, i.e. those born in 10 years ending Dec. 31st of incidence year	3127	3138	3055	2992	3011	3058	3235	3368	3563	3725	3915	4130	4344	4480	4624	4754	4795
Notifications accumulated in above population by end of incidence year	1123	956	939	821	858	682	900	759	861	712	956	826	916	784	727	669	604
Percentage of above population notified	35.9	30.4	30.7	27.4	28.5	22.4	27.9	22.5	29.2	19.1	24.5	20.0	21.2	17.5	15.7	14.1	12.6

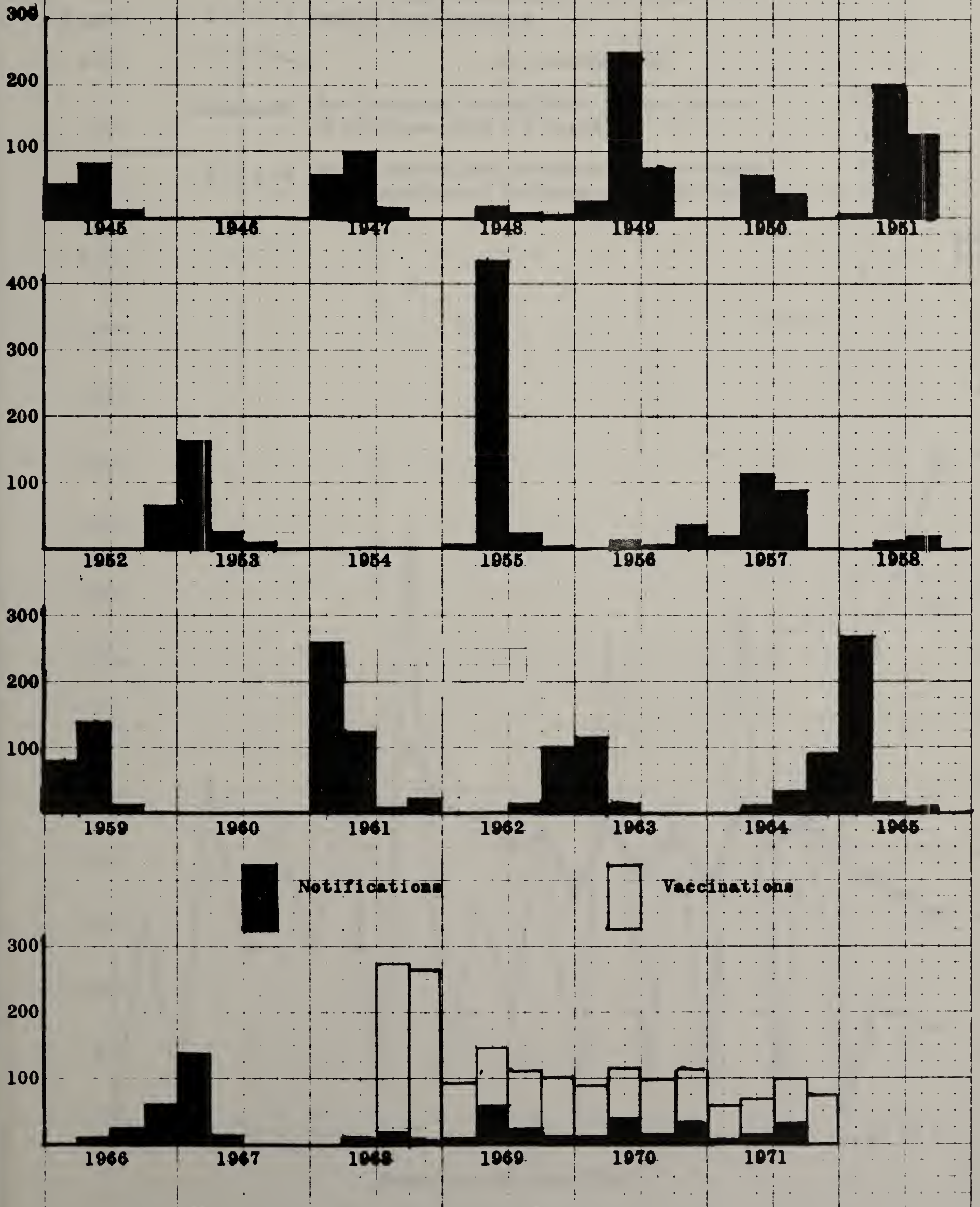
<p>The cases of measles notified in the child population aged 0-9 years in an incidence year and in all previous years are those included in rectangles such as those shown for the end of the incidence years 1954-55 and 1955-56 i.e. 1123 and 956 respectively. The size of the population is the sum of the cohorts on the left hand side of the rectangle i.e. 3127 and 3138 respectively. With the former numerator and the latter denominator we get at the start of each incidence year the percentage of the child population who have been notified at any time, i.e. an index of child immunity.</p> <p>The incidence year is devised to run from July 1st to June 30th so as to include each autumn - winter epidemic.</p>	Numbers of above population vaccinated													
	in incidence year 1968													
	"	"	"	"	"	"	"	"	"	"	"	"	"	"
	"	"	"	"	"	"	"	"	"	"	"	"	"	"
Notifications and vaccinations accumulated														
Percentage of population aged 0-9 years notified and vaccinated														
	784	1419	1716	1962	17.5	30.4	36.2	41.0						

TABLE XXXI MEASLES. NOTIFICATIONS AND VACCINATIONS AT AGES 0-9 YEARS (continued)					Northfleet U.D.			
Born	Population of cohort	Population aged 0-9 years at December 31st	July 1st - June 30th		Vaccinations 1970-71 % pop		Notifications and vaccinations 1961-71 % pop	
			Notifications and vaccinations 1960-70 % pop	Notifications 1970-71 % pop	Notifications 1970-71 % pop	Vaccinations 1970-71 % pop	Notifications and vaccinations 1961-71 % pop	Notifications and vaccinations 1961-71 % pop
1971		1970						
1970	463	1969		4	1%	66	70	15%
1969	479	1968	61	10	2%	110	181	38%
1968	483		151	5	1%	69	225	47%
1967	472		209	11	2%	25	245	52%
1966	512		210	8	2%	18	236	45%
1965	508		177	7	1%	14	198	38%
1964	497		196	7	1%	4	207	42%
1963	491		178	6	1%	4	188	38%
1962	463		206	6	1%	3	215	46%
1961	427		189	6	1%	2	197	46%
1960	422		139	70	1%	315	1962	41%
			1716					
			36%					

MEASLES

Northfleet U.D.

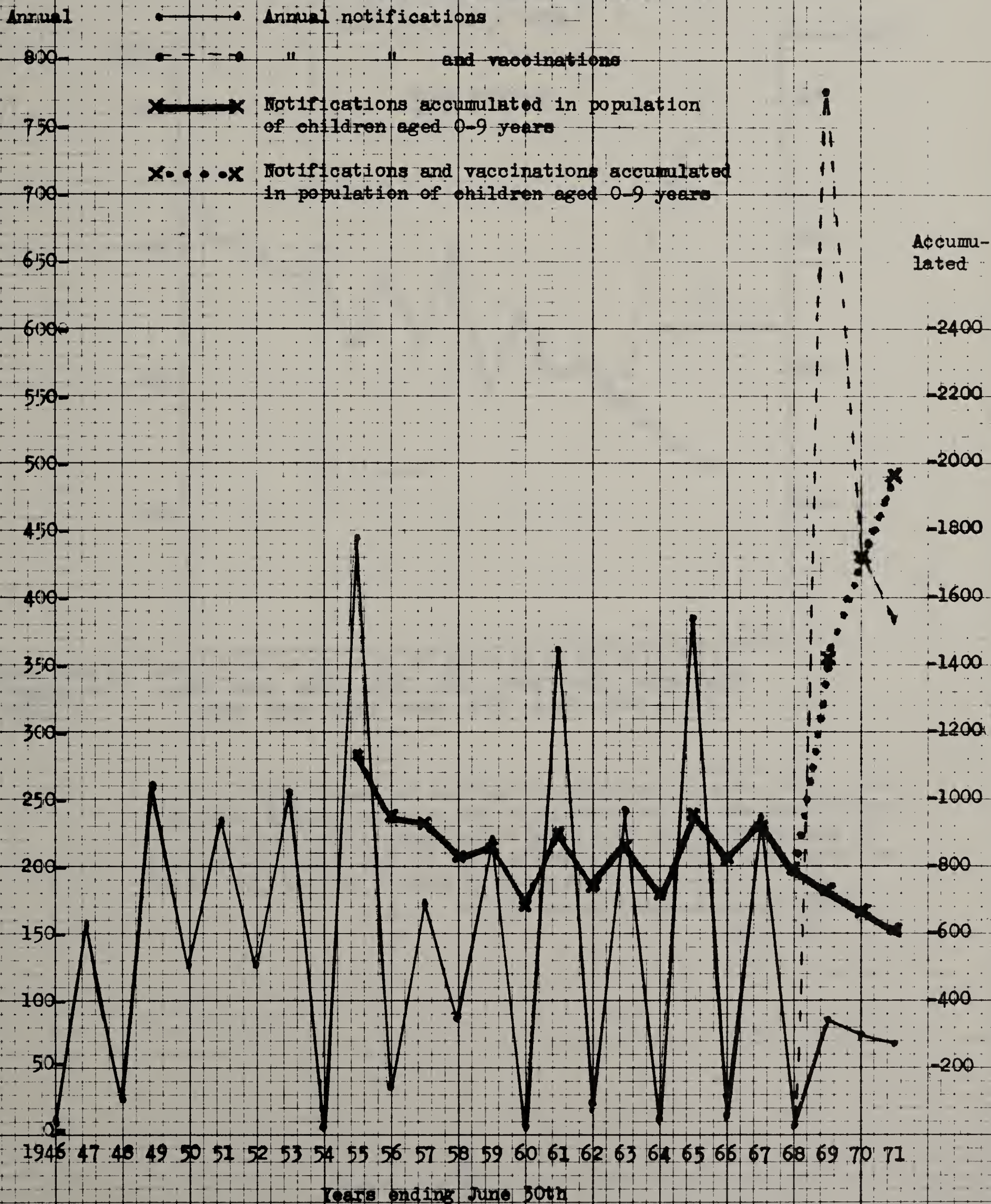
NOTIFICATIONS AND VACCINATIONS BY QUARTERS ALL AGES



MEASLES. NOTIFICATIONS AND VACCINATIONS

Northfleet U.D.

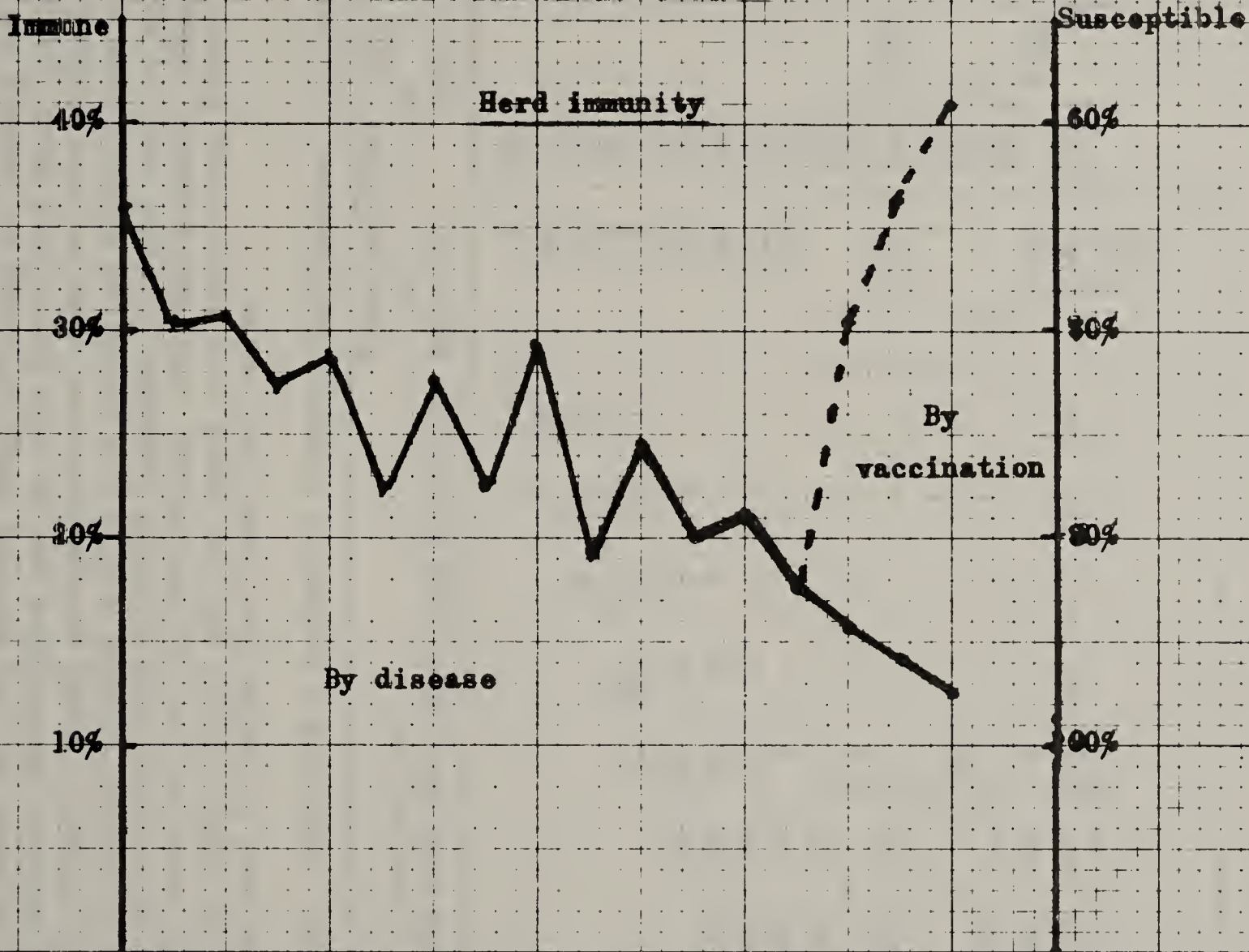
GRAPH FOR TABLES XXVIII and XXIX



MEASLES. NOTIFICATIONS AND VACCINATIONS

Northfleet U.D.

GRAPH FOR TABLE XXXI



Year ending June 30 th	1955	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71
Population aged 0-9 years	3127	3055	3011	3235	3563	3915	4344	4624	4795								
	3138	2992	3058	3368	3725	4130	4480	4754									

"... the effectiveness of vaccination programmes depends both on the individual effectiveness of the vaccination and on the effectiveness of the public health organization which governs the percentage of persons vaccinated and the maintenance of this percentage with time, taking into account changes in the population"

W.H.O. Epidemiological Record 1972
page 302.

TABLE XXXII

VACCINATIONS (a) Poliomyelitis

Northfleet U.D.

Vaccination against poliomyelitis was introduced in 1967 with three doses of dead vaccine by injection as a primary course. In 1962 live vaccine was introduced with a primary course of three doses, a fourth dose of dead or live vaccine being provided for school children under 12 years of age. By 1965 the practice established was to give three oral doses in infancy followed by a fourth dose on starting school. Older groups have also received the vaccine.

For most years the numbers of children under school age receiving primary courses of vaccination have been given to us in age groups each of which consists of those born in a given year. This at first was the original practice for all age groups. For 1961 onwards, however, the older age groups have covered wider spans of age and the spans have varied from year to year. This hampers interpretation as seen in Tables (iii) and (iv) below.

(i) Persons who have completed a course of primary vaccinations (3 doses)

Year of birth	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	Vaccinated by Dec. 1971	Est. pop. of cohort	Percentage vaccinated
1971																9	482	2%
1970																342	463	74%
1969																397	479	83%
1968																463	483	96%
1967																453	472	96%
1966																459	512	90%
1965																391	508	77%
1964																433	497	87%
1963																442	491	90%
1962																467	467	
1961																427	427	
1960																422	422	100%
1959																2355	2340	
1958																349	349	
1957																339	339	
1957-62																336	336	
1957-71																2355	2340	100%
Before 1957																5744	6727	86%
Others																595		

TABLE XXXII

VACCINATIONS. (a) Poliomyelitis (continued)

Northfleet U.D.

(ii) Percentage of persons who have completed a course of primary vaccinations (3 doses)

Year of birth	Year of primary vaccination															Est. pop. of cohort	
	1957	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971		1957-71
1971															2%	2%	482
1970														1%	73%	74%	463
1969													3%	64%	15%	82%	479
1968												22%	47%	24%	3%	96%	483
1967											18%	66%	7%	5%	-	96%	472
1966										18%	65%	5%	0%	1%	-	89%	512
1965									18%	51%	6%	2%	0%	-	-	77%	508
1964								17%	61%	6%	3%	1%	-	-	-	88%	497
1963							14%	68%	4%	2%	2%	-	-	-	-	90%	491
1957-62	-	1%	13%	13%	15%	26%	16%	3%	13%	1%	0%	-	-	-	-	100%	2340
1957-71	-	0%	5%	4%	5%	9%	7%	7%	11%	6%	7%	7%	4%	7%	6%	86%	6727

Not yet born

TABLE XXXII VACCINATIONS (continued)

(a) Poliomyelitis (continued)

Northfleet U.D.

(iii) Reinforcing vaccinations (4th doses). Figures as given by Local Health Authority.

Year of birth	Year of reinforcing vaccination										
	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971
1967											60
1966										38	278
1965					-				50	329	48
1964				-	-			36	241	71	
1963				5	-		31	327	50		33
1962				-	1	31	284				
1961				-				3			
1960							9				
1959					274	253		14			
1958											
1957							3				
1956											
1955			218	210		11	-				
1954	1435	223									
1953				35							
1952											
1951											
1950											
1949											
1943-48				-							
	1435	223	218	215	310	295	315	366	350	452	419

(iv) An interpretation of the preceding table could be -

Year of birth	Year of reinforcing vaccination											1961-1971	Est. pop.	% revaccinated
	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971			
1967											60	60	472	13%
1966										38	278	316	512	62%
1965					-				50	329	24	403	508	79%
1964				-	-			36	241	36	24	337	497	68%
1963				5	-		31	109	25	35	4	209	491	43%
1962				-	1	31	95	109	25	2	4	267	467	58%
1961				-	69	85	95	109	1	2	4	365	427	86%
1960				18	69	84	94	1	1	2	4	273	422	65%
1959				18	68	84	-	1	1	2	4	178	349	51%
1958			32	18	68	2	-	1	1	2	4	128	339	38%
1957			31	18	4	2	-	-	1	1	3	60	336	18%
1956	205	16	31	18	4	1	-	-	1	1	3	280	298	94%
1955	205	16	31	18	4	1	-	-	1	1	3	280	293	95%
1954	205	16	31	17	4	1	-	-	1	1		276	307	87%
1953	205	16	31	17	4	1	-	-	1			275	329	84%
1952	205	16	31	17	4	1	-	-				274	268	102%
1951	205	16		17	4	1	-					243	294	83%
1950	205	16		17	4	1						243	245	100%
1949		16		17	3							36	302	12%
1943-48		95										95		
	1435	223	218	215	310	295	315	366	350	452	419	4598		

(i) Primary vaccination. By year of birth

Year born	Vaccinated in year end. Dec. 31st								1953	Pop. of cohort	% vaccinated	No further figures available in this form until:	1968	-69	-70	-71
	1953	-54	-55	-56	-57	-58	-59	-60	-60							
1971																1
1970																82
1969															201	60
1968														163		15
1967																2
1966													349	?	?	2
1965																
1964													?	?	?	2
1963													?	?	?	
1962													?	?	?	
1961													?	?	?	
1960								124	124	422	29%		?	?	?	
1959							115	131	246	349	71%		?	?	?	4
1958						116	116	9	241	339	71%		?	?	?	
1957					119	104	3	3	229	336	66%		?	?	?	
1956				142	72	5	1	3	223	298	75%		?	?	?	
1955			162	75	3	1	1	2	244	293	83%		?	?	?	
1954		159	88	2	5	2	2	1	259	307	84%		?	?	?	
1953	173	70	4	1	3	1	3	2	257	329	78%		?	?	?	

(ii) Primary vaccination. By age at time of vaccination.

Year	Under 1 yr.	1 year	2-4 yrs	5-7 yrs	8-16 yrs	17 or over
1967	?	335	?	?	?	?
1966	?	291	?	?	?	?
1965	?	311	?	?	?	?
1964	?	285	?	?	?	?
1963	?	105	?	?	?	?
					5-14 yrs	15 or over
1962	283	37	66		166	247
1961	263	24	13		8	2

(iii) Revaccination by age at time of revaccination

Year	Under 1 yr.	1-2 yrs	3-4 yrs	5-7 yrs	8-16 yrs	17 yrs or over
1971 ^x	?	?	2	4	8	?
1970 ^x	?	?	?	?	8	?
1969 ^x	?	?	?	?	5	?
1968 ^x	?	?		<u>7</u>		
		1 year	2-4 yrs			
1967	?	?	?	6	?	?
1966	?	?	?	2	?	?
1965	?	?	?	1	?	?
1964	?	?	?	-	?	?
1963	?	?	?	9	?	?
				5-14 yrs		15 yrs or over
1962	?	1	43	267		578
1961	?	?	?	2		2
				5-7 yrs	8-14 yrs	
1960 ^x	?	?	?	2	?	?
1959 ^x	-	-	2	-	1	5
1958 ^x	-	-	-	-	4	8
1957 ^x	-	-	2	2	-	10
1956 ^x	-	-	-	1	3	5
1955 ^x	-	-	1	1	1	18
1954 ^x	-	-	2	2	1	16

^x The figures for these years are presented to us in the better form, i.e. by the year of birth and not the age when vaccinated. Adaptation to this table therefore involves approximations.

(b) SMALLPOX (continued)

(iv)

REVACCINATION OF SCHOOL CHILDREN. By 1971 vaccination and revaccination of children of school age was minimal. In previous years such immunity as school-children had was mainly from vaccinations and revaccinations done in 1962 when smallpox was in the country.

In the report for the years ending 1966 I estimated that by then 11% of school children had some immunity, this being mainly their legacy from 1962. By December 1971 those partially immune children would have left school and as only 50 revaccinations were recorded in the years 1963-71 the immunity of school children by December 1971 would have been negligible.

(v) VACCINATION RATES AND THEIR TRENDS

Up to the end of 1961 most infants who were vaccinated were vaccinated in the first year of life but in 1962 more infants than in former years were vaccinated at a later stage. In 1963 the second year of life was advocated as an age for vaccination. With this change of practice the County as seen above ceased to record vaccinations at ages under one year but continued to record them in the second year of life. Thus up to 1962 the expedient rate was the percentage of the number of births in a given year of those vaccinated while under one year of age in that year. 1963 represented an interim period in which vaccinations diminished in numbers while infants reached their second year of life. From 1964 onwards the expedient rate became the vaccinations done at age 12-23 months expressed as a percentage of infants surviving to age of one year. In 1968 greater emphasis was placed on the need for vaccination to be carried out by or with the knowledge of the family doctor which could result in delay or postponement. From 1961 to 1967 the statistics were recorded according to age in years at time of vaccination. This is not a precise way of presentation.

FIRST YEAR VACCINATION RATE:

Year	Number of live births	Number vaccinated at age under 1 year	Percentage of births of those vaccinated
1963	505	?	?
1962	479	283	59%
1961	436	263	60%
1960	434	?	?
1959	356	226	64%

SECOND YEAR VACCINATION RATE:

Year	Births	Infant deaths	Survivors to age one	Vaccination year	Vaccinations done at age 12-23 months	Percentage vaccinated
1966	523	11	512	1967	335	65%
1965	515	7	508	1966	291	57%
1964	511	14	497	1965	311	63%
1963	505	14	491	1964	285	58%
1962	479	12	467	1963	105	22%
1961	436	9	427	1962	37	9%
1960	434	12	422	1961	24	6%

It is not feasible to present a vaccination rate in this form after 1967 in view of the changed form in which the figures were received.

(b) SMALLPOX (continued)

(vi) PRIMARY VACCINATION IN EARLY CHILDHOOD. COMPARISON WITH OTHER AREAS.

Rates based on live births during previous calendar year.

	1965	1966	1967	1968	1969
Vaccination rate for children aged under two years					
ENGLAND & WALES	33%	38%	39%	38%	31%
Vaccination rate for children aged between one and two years					
KENT ADMIN. COUNTY					
Vaccinations	$\frac{13881}{22638} = 61\%$	$\frac{13884}{23436} = 59\%$	$\frac{14304}{23391} = 61\%$	$\frac{13266}{22859} = 58\%$	$\frac{9793}{23222} = 42\%$
Live births					
DARTFORD M.B.				Vaccination figures for the years 1968, 1969 and 1970 not given by age when vaccinated but by year of birth	
Vaccinations	$\frac{476}{898} = 53\%$	$\frac{638}{850} = 75\%$	$\frac{522}{785} = 67\%$		
Live births					
DARTFORD R.D.					
Vaccinations	$\frac{830}{1199} = 69\%$	$\frac{791}{1172} = 68\%$	$\frac{684}{1176} = 58\%$		
Live births					
NORTHFLEET U.D.					
Vaccinations	$\frac{311}{511} = 61\%$	$\frac{291}{515} = 57\%$	$\frac{335}{523} = 64\%$		
Live births				-do-	

Rates based on population in second year

Birth year	Births	Infant deaths	Surviving infancy	Vaccination year	Aged "1 yr" in vacce. year i.e. 12-23 mth.	Factor	With even flow prob. No.avail-able in vacc.yr.	Vacc.while aged 12-23 months	%
KENT A.C.									
1964	22638	468	22170	1966	45207	$\frac{1}{2}$	22604	13884	61%
1965	23436	399	23037		45950	$\frac{1}{2}$	22975	14304	62%
1966	23391	378	22913		45384	$\frac{1}{2}$	22692	13266	58%
1967	22859	388	22471		45316	$\frac{1}{2}$	22658	9793	43%
1968	23222	375	22845						
DARTFORD M.B.									
1963	780	28	752	1965	1604	$\frac{1}{2}$	802	476	59%
1964	865	13	852		1728	$\frac{1}{2}$	864	638	74%
1965	898	22	876		1711	$\frac{1}{2}$	856	522	61%
1966	850	15	835						
DARTFORD R.D.									
1963	1203	20	1183	1965	2362	$\frac{1}{2}$	1181	830	70%
1964	1199	20	1179		2338	$\frac{1}{2}$	1169	791	68%
1965	1172	13	1159		2316	$\frac{1}{2}$	1158	684	59%
1966	1176	19	1157						
NORTHFLEET U.D.									
1963	505	14	491	1965	988	$\frac{1}{2}$	494	311	63%
1964	511	14	497		1005	$\frac{1}{2}$	503	291	58%
1965	515	7	508		1020	$\frac{1}{2}$	510	335	61%
1966	523	11	512						

TABLE VACCINATIONS (continued)
(b) SMALLPOX (continued)
(vii) PRIMARY VACCINATION IN EARLY CHILDHOOD. RATES ENG. & WALES

Birth year	Births	1000 - Inf.mort.rate	Surviving infancy	Vaccination year	No. at given age in vaccn. year	Factor	With even flow prob.no.available in vaccn.year	No.at given age vaccinated	Percentage
VACCINATED AT AGE UNDER 1 YEAR									
1960	785005	978.2	767000	1961	1562000	$\frac{1}{5}$	781000	319532	41%
1961	811281	978.6	795000	1962	1615000	$\frac{1}{5}$	807500	409195	51%
1962	838736	978.3	820000	1963	1655000	$\frac{1}{5}$	827500	76139	9%
1963	854055	978.9	835000	1964	1695000	$\frac{1}{5}$	847500	67043	8%
1964	875972	980.0	860000	1965	1706000	$\frac{1}{5}$	853000	50381	6%
1965	862723	981.0	846000	1966	1681000	$\frac{1}{5}$	840500	43705	5%
1966	849823	981.0	835000	1967	1651000	$\frac{1}{5}$	825500	41172	5%
1967	832164	981.7	816000	1968	1620000	$\frac{1}{5}$	810000	30649	4%
1968	819272	981.7	804000	1969	1586000	$\frac{1}{5}$	793000	14985	2%
1969	797538	982.0	782000						
VACCINATED AT AGE 1 - 4 YEARS									
1959	748501	978.8	730000						
1960	785005	978.2	767000						
1961	811281	978.6	795000	1964	3947000	$\frac{1}{5}$	789400	246445	31%
1962	838736	978.3	820000	1965	4077000	$\frac{1}{5}$	815400	328441	40%
1963	854055	978.9	835000	1966	4156000	$\frac{1}{5}$	831200	396206	48%
1964	875972	980.0	860000	1967	4196000	$\frac{1}{5}$	839200	394547	47%
1965	862723	981.0	846000	1968	4192000	$\frac{1}{5}$	838400	395384	47%
1966	849823	981.0	835000	1969	4161000	$\frac{1}{5}$	832200	345135	41%
1967	832164	981.7	816000						
1968	819272	981.7	804000						
1969	797538	982.0	782000						

The above are based on figures submitted by Local Health Authorities. As will be seen from local figures these are incomplete, e.g. only figures of those vaccinated at age 1 from Kent are submitted.

Bacterial Diseases

(c) DIPHTHERIA

(i)

NUMBER VACCINATED

	Age at 31st December	Primary inoculations done in the year			Reinforcing inoculations done in the year		
		Triple antigen	Diphtheria tetanus	Total	Triple antigen	Diphtheria tetanus	Total
1971	0 - 4 years	403	11	414	29	49	78
	5 - 7 "	1	1	2	59	263	322
	8 -16 "	1	3	4	2	28	30
1970	0 - 4 "	376	14	390	103	126	229
	5 - 7 "	-	-	-	93	207	300
	8 -16 "	1	1	2	-	15	15
1969	0 - 4 "	173	1	174	146	139	285
	5 - 7 "	-	-	-	89	195	284
	8 -16 "	-	-	-	3	2	5
1968	0 - 4 "	393	6	399	208	186	394
	5 - 7 "	3	1	4	171	190	361
	8 -16 "	2	-	2	4	5	9
1967	0 - 4 "	425	12	437	207	153	360
	5 - 7 "	2	-	2	118	189	307
	8 -16 "	1	1	2	4	1	5
1966	0 - 4 "	456	2	458	231	95	326
	5 - 7 "	2	2	4	125	145	270
	8 -16 "	-	4	4	4	-	4
1965	0 - 4 "	483	6	489	231	100	331
	5 - 7 "	2	-	2	142	111	253
	8 -16 "	-	-	-	-	-	-

(ii)

PRIMARY VACCINATIONS at ages 0-4 years

Vaccinated in year ending December 31st														
Year of birth	at age less than 5 years													Est. pop.
	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1960-71	
1971												4	4	482
1970											3	327	330	463
1969										18	323	69	410	479
1968									196	146	56	10	408	483
1967								192	187	7	5	4	395	472
1966							225	229	9	2	3		468	483
1965						228	213	8	6	1			456	504
1964					194	244	12	6	1				457	482
1963				181	227	8	4	2					422	491
1962			165	214	18	3	4						404	463
1961		171	148	11	6	6							342	427
1960	154	182	14	5	6								361	422
Total	154	353	327	411	451	489	458	437	399	174	390	414	4457	5651
	3%	6%	6%	7%	8%	9%	8%	8%	7%	3%	7%	7%	79%	

The above table purports to display the amount and distribution of immunity acquired from primary vaccinations at ages 0-4 years in the population from 1960-71. The cumulative figures are given below.

TABLE XXXII

VACCINATIONS (continued)
Bacterial Diseases
(c) DIPHTHERIA (continued)

Northfleet U.D.

(ii)

PRIMARY VACCINATIONS AT AGES 0-4 YEARS (continued)

Year of birth	Vaccinated at age < 5 yrs. 1960-71	Estimated population of cohorts	<u>Cumulative</u>		Percentage vaccinated	Ages of population on 31.12.71 in years
			Vaccinated	Population		
1971	4	482	4	482	1%	0
1970	330	463	334	945	35%	0- 1
1969	410	479	744	1424	52%	0- 2
1968	408	483	1152	1907	60%	0- 3
1967	395	472	1547	2379	65%	0- 4
1966	468	483	2015	2862	70%	0- 5
1965	456	504	2471	3366	73%	0- 6
1964	457	482	2928	3848	76%	0- 7
1963	422	491	3350	4339	77%	0- 8
1962	404	463	3754	4802	78%	0- 9
1961	342	427	4096	5229	78%	0-10
1960	361	422	4457	5651	79%	0-11
	4457	5651				

The above table purports to display the artificial immunity acquired from primary vaccination by populations containing those aged 0 years up to 11 years on 31.12.71

(iii)

PRIMARY VACCINATIONS - PERCENTAGE OF POPULATION VACCINATED at ages 0-4 years

Year of birth	Percentage vaccinated in year ending December 31st													1960-
	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971		1971
1971													1%	1%
1970											1%	71%		72%
1969										4%	68%	14%		86%
1968									41%	30%	12%	2%		85%
1967								41%	40%	1%	1%	1%		84%
1966							47%	47%	2%	0%	1%			97%
1965						45%	42%	2%	1%	0%				90%
1964					40%	51%	3%	1%	0%					95%
1963				37%	46%	2%	1%	0%						86%
1962			35%	46%	4%	1%	1%							87%
1961		40%	35%	3%	1%	1%								80%
1960	36%	43%	3%	1%	1%									84%

The above table purports to display the pattern of acceptance of primary vaccination at ages 0-4 years of the cohorts born in each of the years 1960-1971

TABLE XXXII

VACCINATIONS (c) DIPHTHERIA (continued)

Northfleet U.D.

NUMBER REVACCINATED AT AGE 0-4 YEARS

Year of birth	Reinforcing vaccinations in year ending December 31st												1958-71	Est. pop.	Revacc. at age 0-4 yrs.	Popu- lation Aged under 4 years	% revacc- inated	pop. on 31.12.71 in years	
	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969							1970
1969														5	479	322	472	68%	4
1968														144	483	668	955	70%	4-5
1967														322	472	1015	1459	70%	4-6
1966														346	483	1351	1941	70%	4-7
1965														347	504	1714	2432	71%	4-8
1964														336	482	2016	2895	70%	4-9
1963														363	491	2255	3322	68%	4-10
1962														302	463	2447	3744	65%	4-11
1961														239	427	2565	4093	63%	4-12
1960														192	422	2623	4432	59%	4-13
1959														118	349	2665	4768	56%	4-14
1968														58	339				
1957														42	336				
														2814	6675				

The above table purports to display the amount and distribution of immunity acquired from revaccinations at ages 0-4 years in the population born 1957-67

PERCENTAGE OF POPULATION REVACCINATED at ages 0-4 years

1969																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															</
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VACCINATIONS (c) DIPHTHERIA (continued)

TABLE XXXII
REINFORCING VACCINATION AT SCHOOL AGE

Year of birth	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972
1966															
1965															
1964															
1963															
1962															
1961															
1960															
1959															
1958															
1957															
1956															
1955															
1954															
1953															
1952															
1951															
1950															
Before 1950															
Total	147	153	151	179	146	169	198	253	274	312	270	289	315	370	3226

An interpretation of the preceding table could be:

Year of birth	1958	1959	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972
1966															
1965															
1964															
1963															
1962															
1961															
1960															
1959															
1958															
1957															
1956															
1955															
1954															
1953															
1952															
1951															
1950															
Before 1950															
Total	147	153	151	179	146	169	198	253	274	312	270	289	315	370	3226

Est. pop.	Percent-age	Cumulative Revacc.	Pop.	% Revacc.	Ages of pop. on 31.12.71 in years
512	54%	275	512	54%	5
508	56%	557	1020	55%	5-6
497	55%	829	1517	55%	5-7
491	29%	971	2008	48%	5-8
463	49%	1197	2471	49%	5-9
427	67%	1484	2898	50%	5-10
422	68%	1770	3320	53%	5-11
349	64%	1993	3669	54%	5-12
339	50%	2162	4008	54%	5-13
336	34%	2275	4344	52%	5-14
298	49%	2420	4642	52%	5-15
293	88%	2677	4935	54%	5-16
307	84%	2936	5242	56%	5-17
329	61%	3137	5571	56%	5-18
268	school entry revacc. prior to 1958		3192		
294		3200			
245		3208			
		3226			

TABLE XXXII VACCINATIONS (continued)				(d) WHOOPING COUGH		Northfleet U.D.	
(i) NUMBER VACCINATED				Primary.Reinforcing.		Primary.	Reinforcing.
Age at 31st December	1971	0-4 years	403	29	1967	0-4 years	207
		5-7 "	1	59		5-7 "	118
		8-16 "	1	2		8-16 "	4
	1970	0-4 years	376	103	1966	0-4 years	231
		5-7 "	-	93		5-7 "	125
		8-16 "	1	-		8-16 "	4
	1969	0-4 years	173	146	1965	0-4 years	231
		5-7 "	-	89		5-7 "	142
		8-16 "	-	3		8-16 "	-
	1968	0-4 years	393	208	1964	0-4 years	445
		5-7 "	3	171		5-7 "	3
		8-16 "	2	4		8-16 "	1

PRIMARY VACCINATIONS TABLE XXXII VACCINATIONS (continued)													(d) WHOOPING COUGH (continued)		Northfleet U.D.						
Year of birth	1960	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1960-71	Est. pop.	% cohort vacc.	Est. pop.	Cumulative Vaccinated	Vaccinated %	Ages on 31.12.71		
1971												4	4	482	1%	482	4	1%	0 years		
1970											3	320	323	463	70%	945	327	35%	0-1 years		
1969									18	145	316	67	401	479	84%	1424	728	51%	0-2 years		
1968									196	183	51	9	401	483	83%	1907	1129	59%	0-3 "		
1967								187	183	7	4	3	384	472	81%	2379	1513	64%	0-4 "		
1966							224	223	9	2	2		460	483	95%	2862	1973	69%	0-5 "		
1965						228	213	7	4	1			453	504	90%	3366	2426	69%	0-6 "		
1964					193	242	12	6	1				454	482	94%	3848	2880	75%	0-7 "		
1963				184	226	7	3	2					422	491	86%	4339	3302	76%	0-8 "		
1962			164	213	18	2	4						401	463	87%	4802	3703	77%	0-9 "		
1961		171	147	11	5	4							338	427	79%	5229	4041	77%	0-10 "		
1960	154	179	14	5	3								355	422	84%	5651	4396	78%	0-11 "		
1959	142	19	3	1									165)	Vaccinations before 1960 excluded					(4561		
1958	16	14	4										34)						(4595		
1957	2	17											19)						(4614		
1956	6												6)						(4620		
Total	320	400	332	414	445	483	456	425	393	173	376	403	4620								

TABLE XXXII (d) WHOOPING COUGH (continued)

TABLE XXXII

VACCINATIONS

(iii) REINFORCING VACCINATION AT AGES 0-4 YEARS

Year of birth	Before 1965	Revaccinated in year ending Dec. 31st	1965	1966	1967	1968	1969	1970	1971	1965-71	Est. pop. of cohort	% cohort revacc.	Est. pop.	Vaccinated	Cumulative % vaccin.	Ages on 31.12.71
1969				not born			-	-	5	5	479	1%	479	5	1%	2 years
1968							6	55	9	70	483	15%	962	75	8%	2-3 "
1967							103	38	15	163	472	35%	1434	238	17%	2-4 "
1966							24	10		178	483	37%	1917	416	22%	2-5 "
1965							13			201	504	40%	2421	617	25%	2-6 "
1964							17x			211	482	44%	2903	828	29%	2-7 "
1963	Figures not available	2	149	43	17x					243	491	>50%	3394	1071	>32%	2-8 "
1962		166	58	19	19					71	463		3857	1142		2-9 "
1961		50	21							13	427		4284	1155		2-10 "
1960		13								1155	4284					

(iv) REINFORCING VACCINATION AT AGES 5-7 YEARS

Year of birth	Before 1965	Revaccinated in year ending Dec. 31st	1965	1966	1967	1968	1969	1970	1971	1965-71	Est. pop. of cohort	% cohort revacc.	Est. pop.	Vaccinated	Cumulative % vaccin.	Ages on 31.12.71
1966									49	49	483	10%	483	49	10%	5 years
1965								78	5	83	504	17%	987	132	13%	5-6 "
1964								8	5	79	482	16%	1469	211	14%	5-7 "
1963								7		76	491	16%	1960	287	15%	5-8 "
1962										108	463	23%	2423	395	16%	5-9 "
1961										138	427	32%	2850	533	19%	5-10 "
1960										129	422	30%	3272	662	20%	5-11 "
1959	Figures not available	48	42	39						88				750		
1958		47	41							47				797		
		47								797						
		142	125	118	171	89	93	59		797						

TABLE XXXII

VACCINATIONS (e) TETANUS

Northfleet U.D.

VACCINATION AGAINST TETANUS ONLY xx

Year of birth	Primary vaccination				Year of birth	Reinforcing vaccination			
	1968	1969	1970	1971		1968	1969	1970	1971
1971					1971				
1970					1970				
1969			2		1969				
1968					1968				
1967	1				1967			2	
1966					1966				
1965					1965			1	
1964					1964	1			4
1963				1	1963			7	
1962	4	1			1962	3	2		
1961					1961				21
1955-60	16	14	9	7	1955-60	118	17	35	
1954					1954				
1953					1953				
1952					1952				

TABLE XXXIII

VACCINATIONS (continued)

Northfleet U.D.

COMPARISON WITH OTHER AREAS

	Percentages of children vaccinated							
	Polio	Diph-xx theria	Whooping cough		Polio	Diph-xx theria	Whooping cough	Smallpox (aged under 2)
By 31.12.69	Born in 1967				Born in 1968			
Eng. & Wales	80%	83%	81%		65%	67%	66%	31%
England	80%	83%	81%		65%	68%	66%	32%
Kent	95%	90%	86%		70%	65%	64%	42%
Dartford M.B.	104%*	91%	85%		93%	73%	72%	8%
Dartford R.D.	81%	91%	91%		74%	91%	58%	10%
Northfleet U.D.	91%	82%	80%		69%	71%	71%	33%(aged 1 year)
By 31.12.68	Born in 1966				Born in 1967			
England & Wales	77%	79%	77%		74%	78%	76%	38%
England	77%	79%	77%		74%	78%	76%	38%
Kent	95%	86%	84%		90%	88%	84%	58%
Dartford M.B.	106%*	103%*	73%		98%	90%	85%	64%
Dartford R.D.	87%	81%	81%		73%	89%	89%	51%
Northfleet U.D.	89%	88%	89%		84%	80%	78%	74%(aged one year)

* That certain percentages are more than 100% may be due to an underestimate of population or to misunderstanding of precise local authority area of residence of a few children on the boundary.

xx The great majority of vaccinations against tetanus are given with vaccinations against diphtheria. Therefore vaccinations against tetanus are almost the same in number as those against diphtheria.

ERRATA

The following errors have entered the population estimates of the cohorts in the vaccination tables for diphtheria and whooping cough. They are small and make little difference to the picture presented.

Population estimates		
Born	incorrect	correct
1966	483	512
1965	504	508
1964	482	497
1962	463	467

TABLE XXXIV VENEREAL DISEASES, ETC.

Numbers of new patients from Northfleet area attending the special clinic Gravesend

	Syphilis			Gonorrhea			Other conditions			Total Persons
	M	F	Persons	M	F	Persons	M	F	Persons	
1958	-	-	-	4	1	5	23	4	27	32
1959	-	-	-	3	-	3	9	4	13	16
1960	-	1	1	3	2	5	18	4	22	28
1961	1	-	1	2	1	3	14	3	17	21
1962	1	-	1	7	1	8	6	3	9	18
1963	-	-	-	?	?	5	?	?	26	31
1964	-	2	2	3	1	4	23	4	27	33
1965	-	-	-	8	2	10	32	4	36	46
1966	-	1	1	5	2	7	15	5	20	28
1967	-	-	-	5	2	7	14	12	26	33
1968	1	1	2	2	1	3	16	11	27	32
1969	-	-	-	4	1	5	20	12	32	37
1970	-	-	-	?	?	5	?	?	24	29
1971	-	1	1	6	5	11	26	22	48	60

FIRST CERTIFICATES OF INCAPACITY

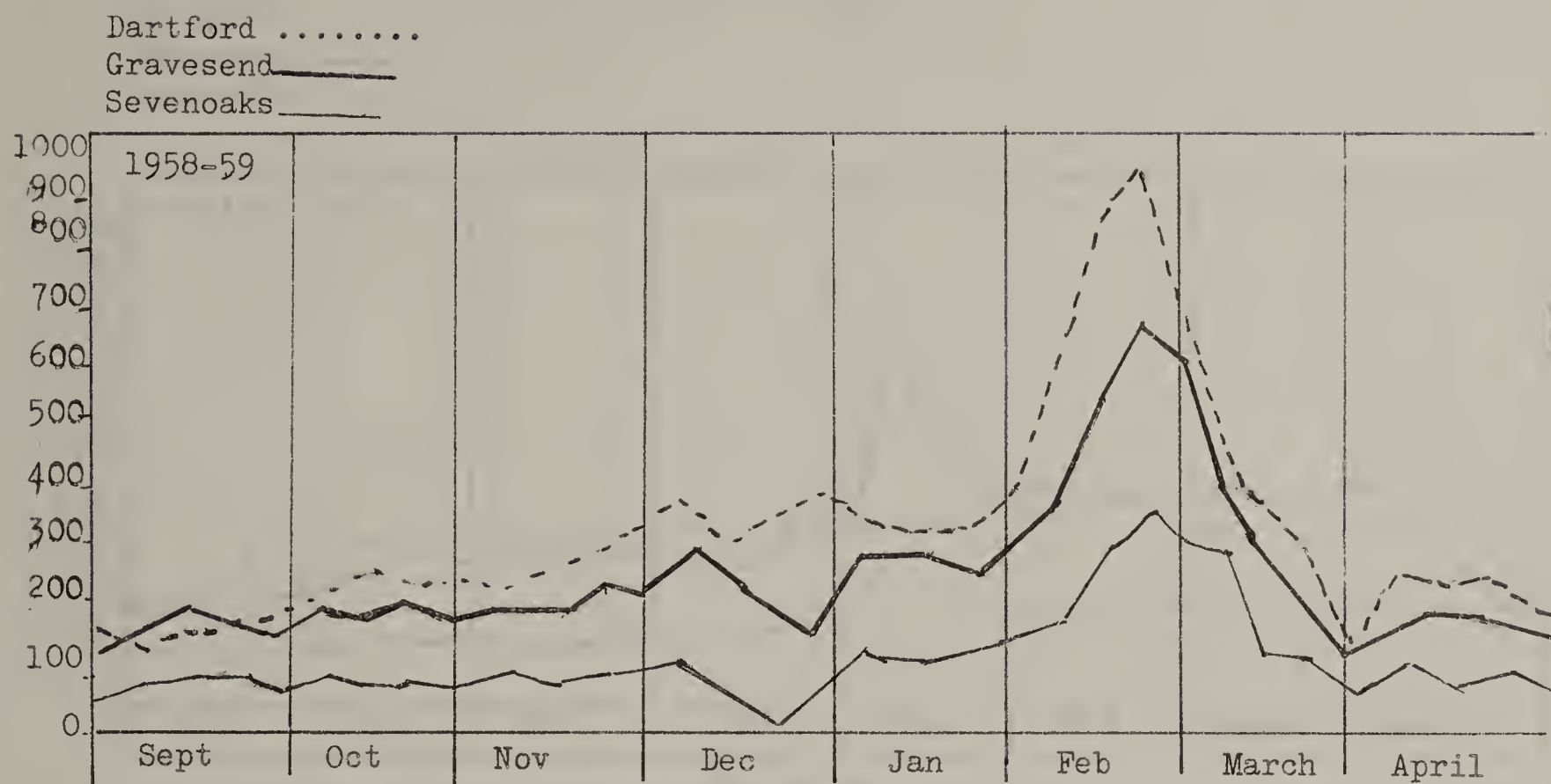


figure i

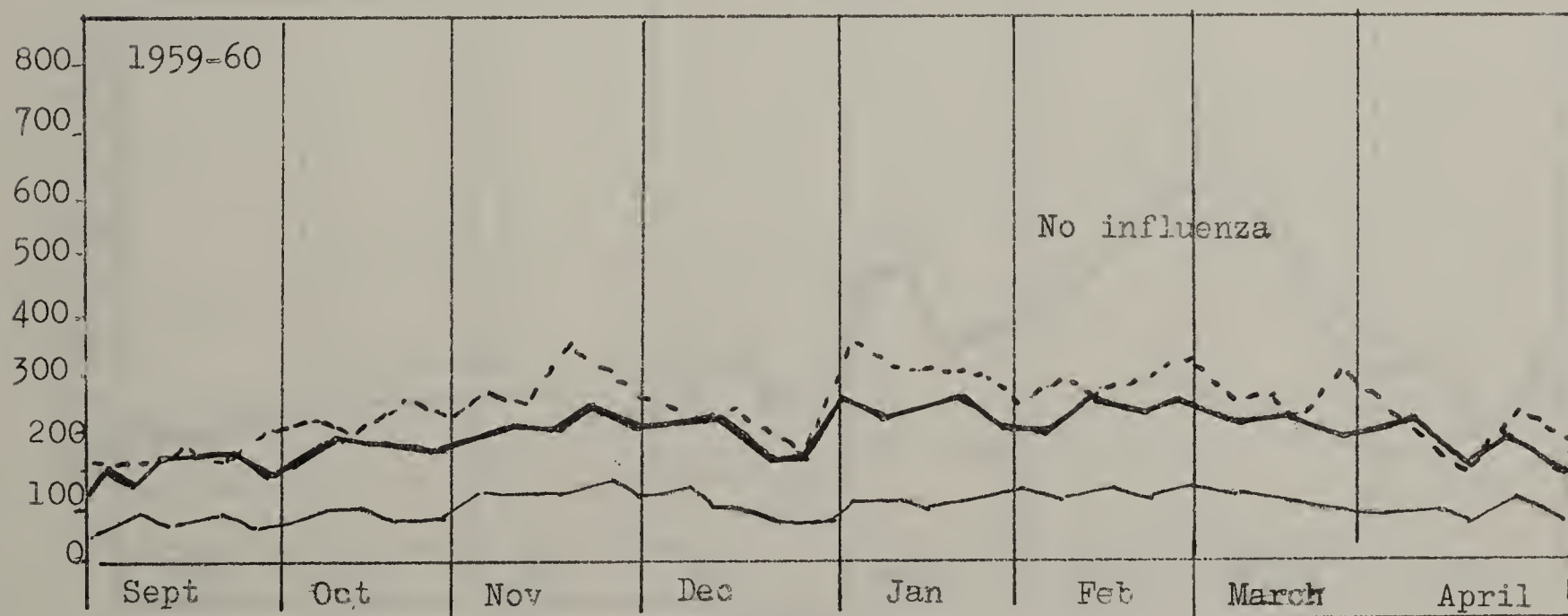


figure ii

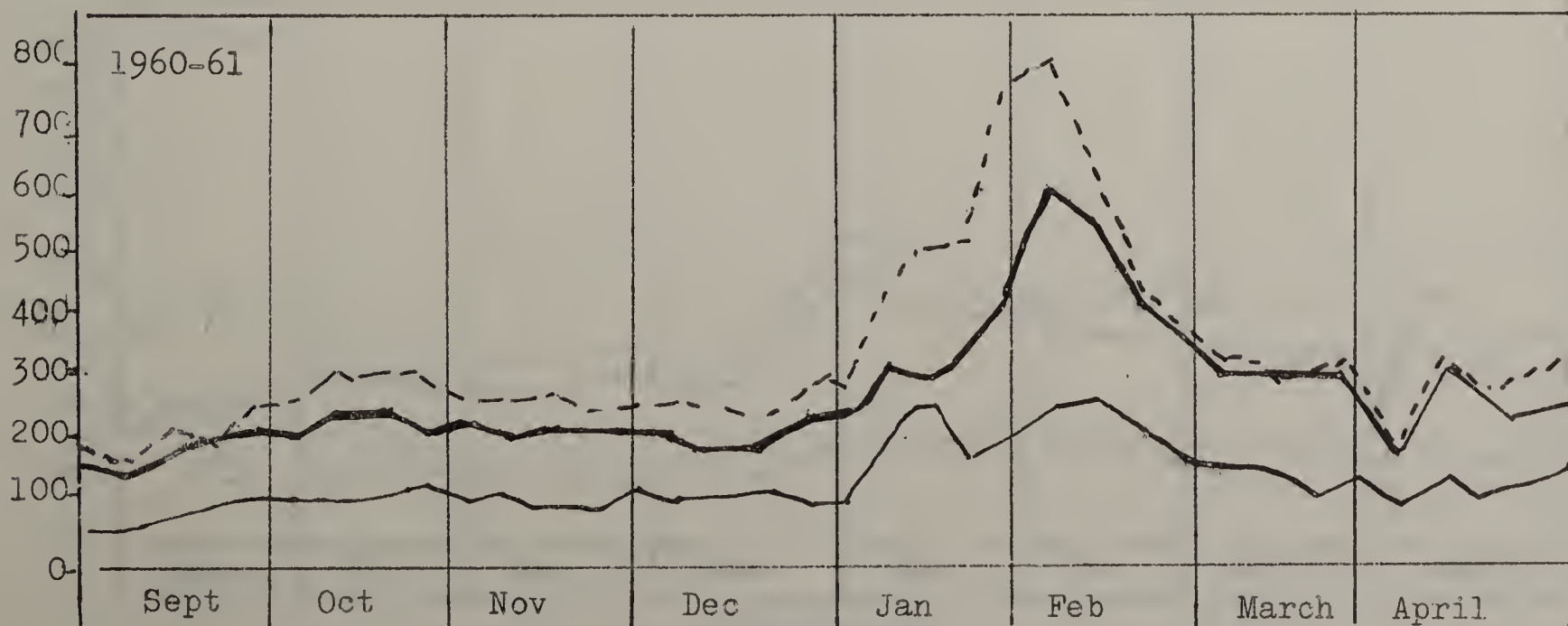


figure iii

FIRST CERTIFICATES OF INCAPACITY

Dartford
 Gravesend
 Sevenoaks

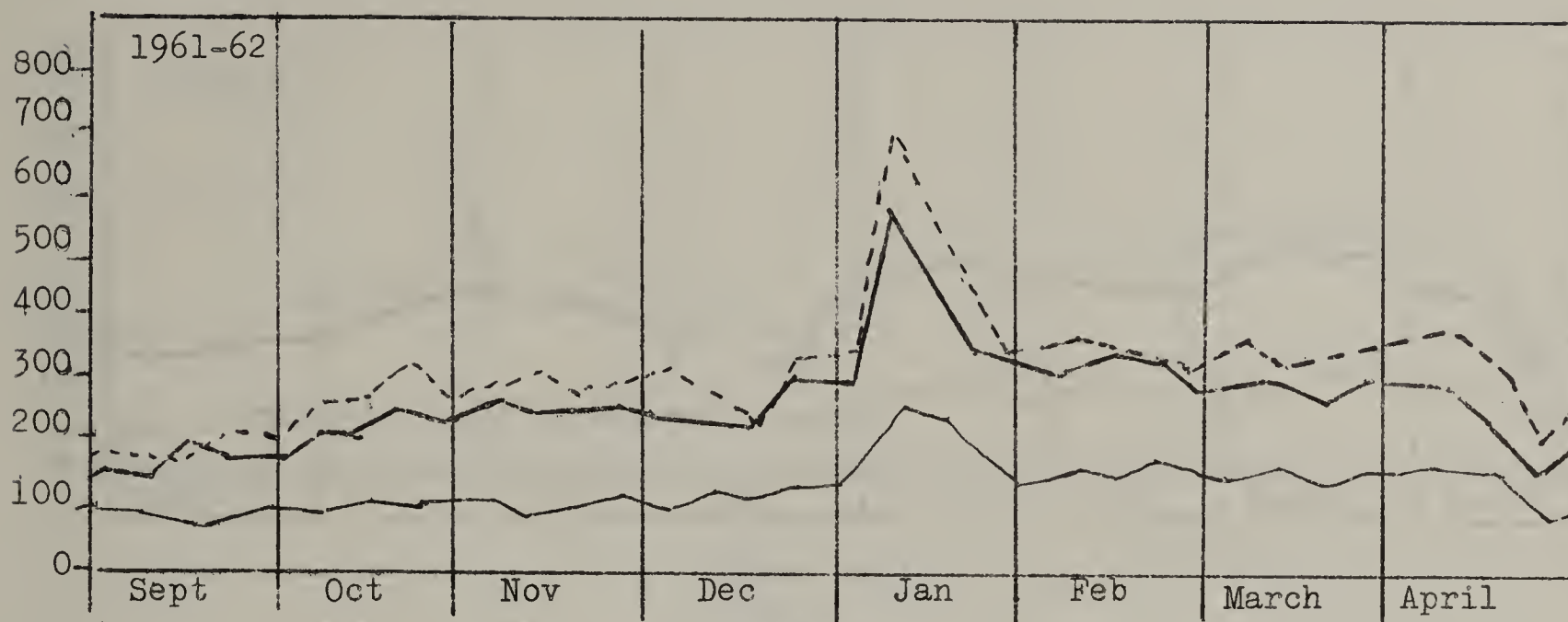


figure iv

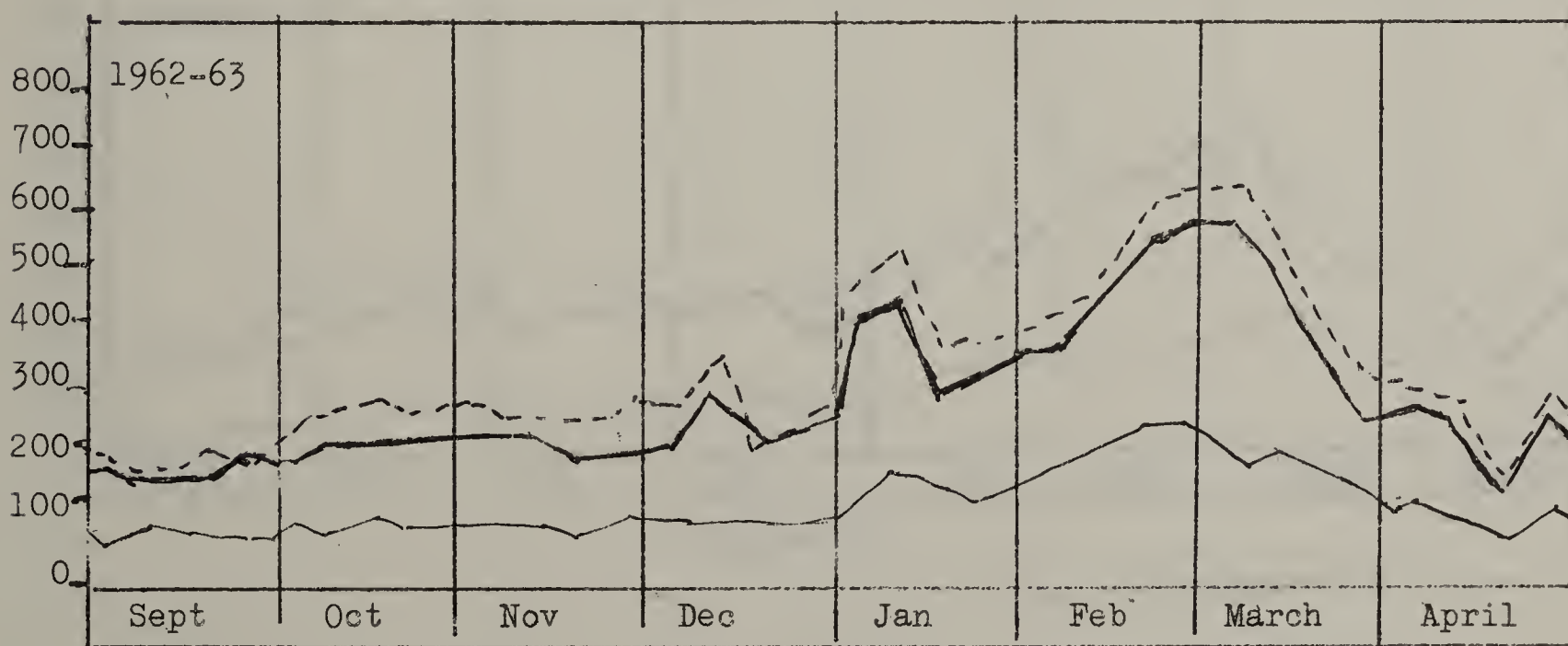


figure v

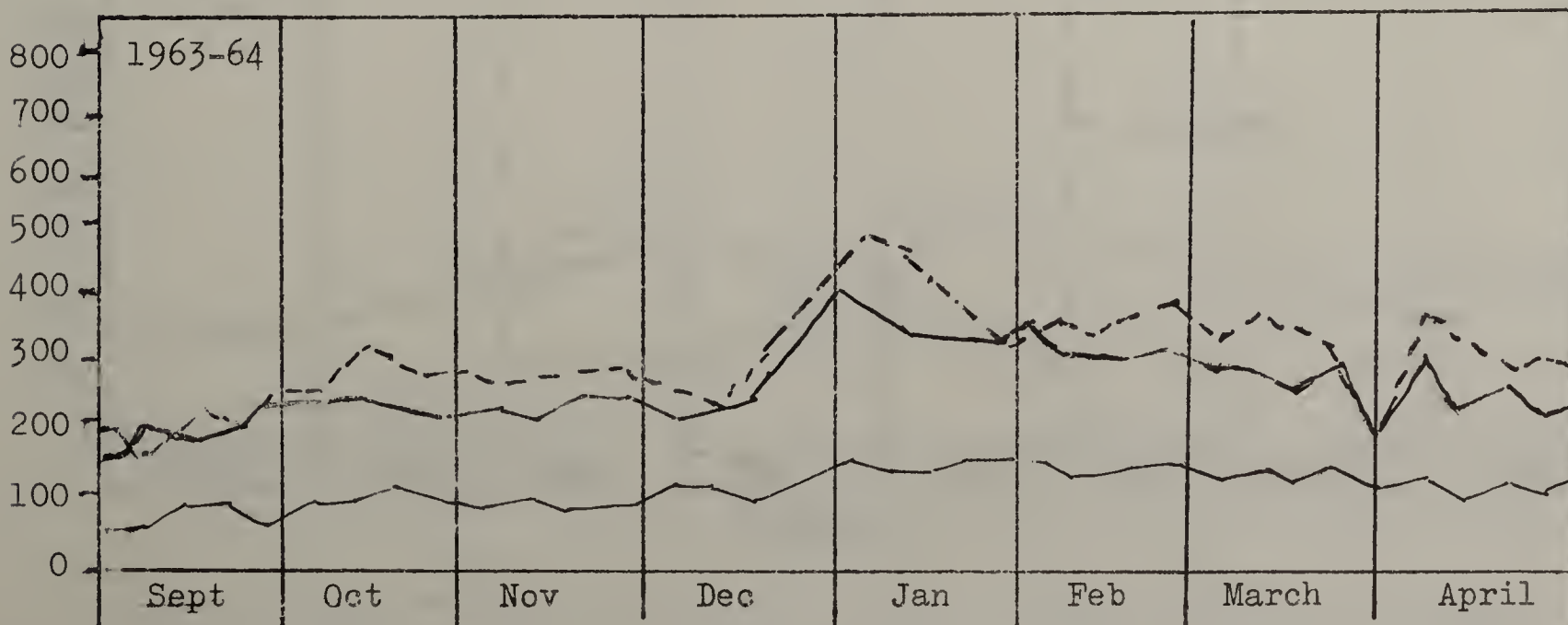


figure vi

FIRST CERTIFICATES OF INCAPACITY

Dartford
 Gravesend ———
 Sevenoaks ———

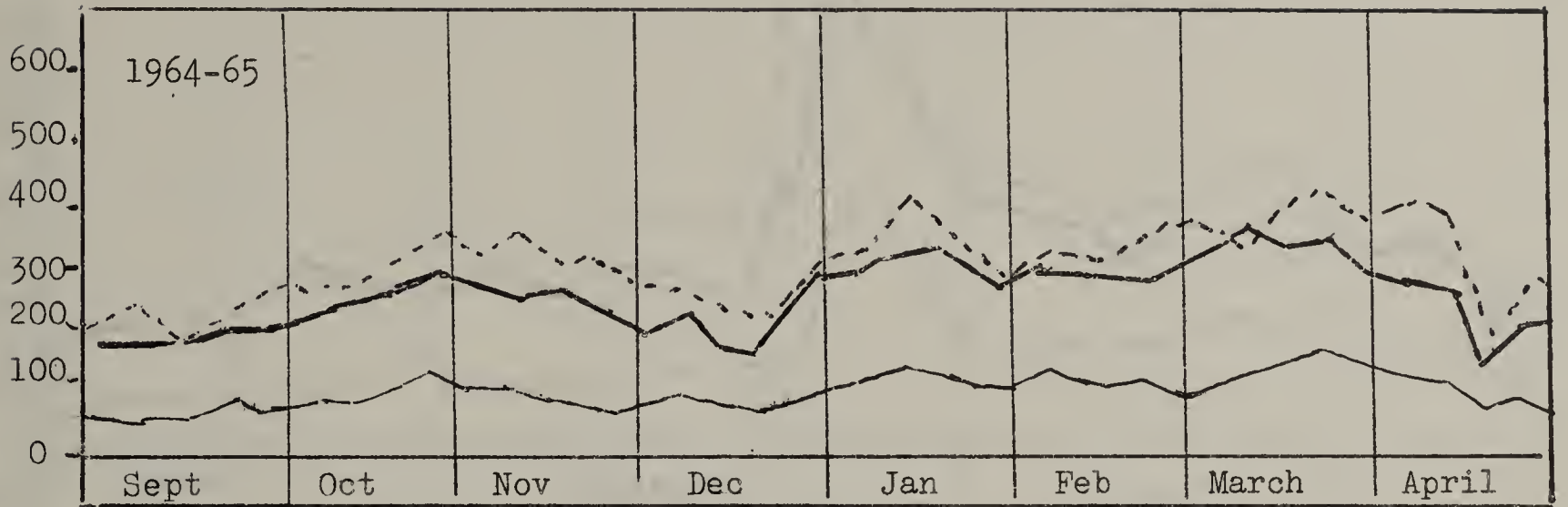


figure vii

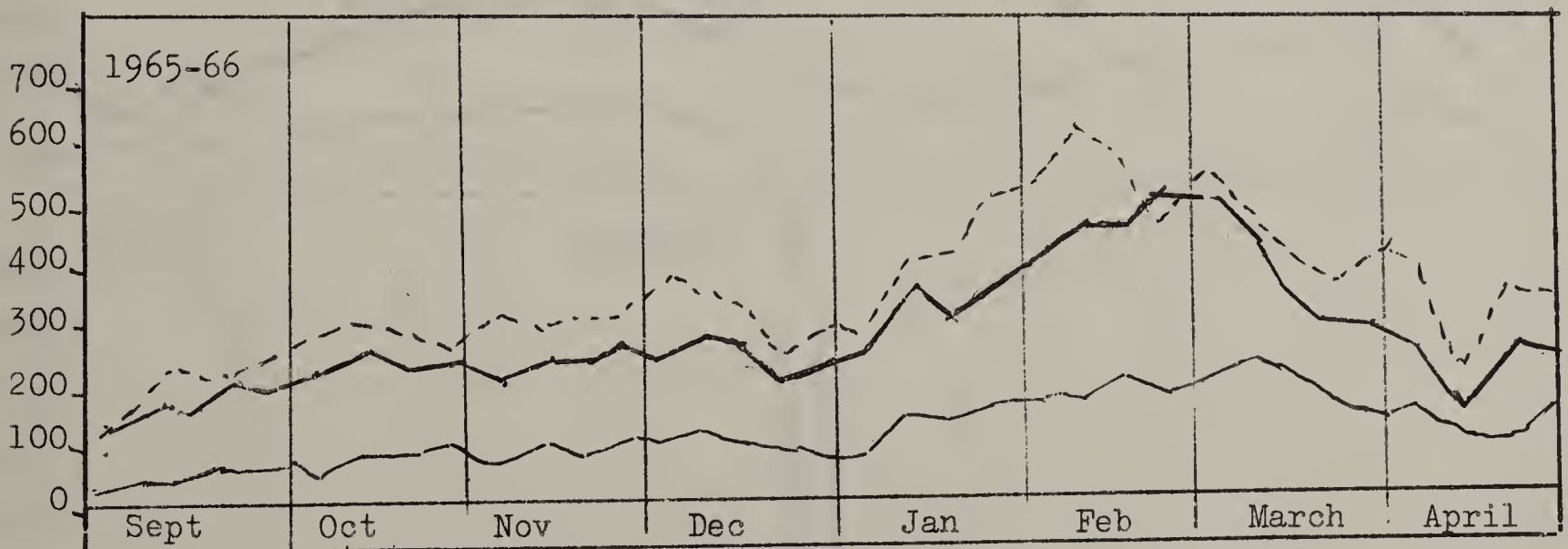


figure viii

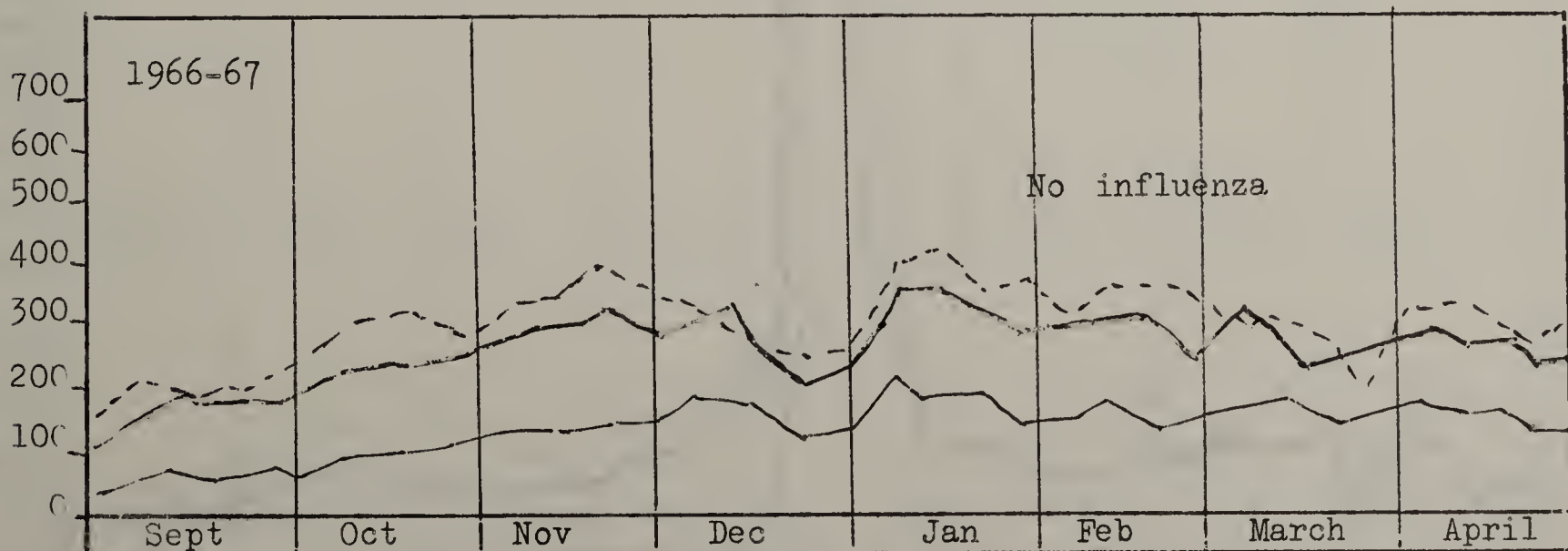
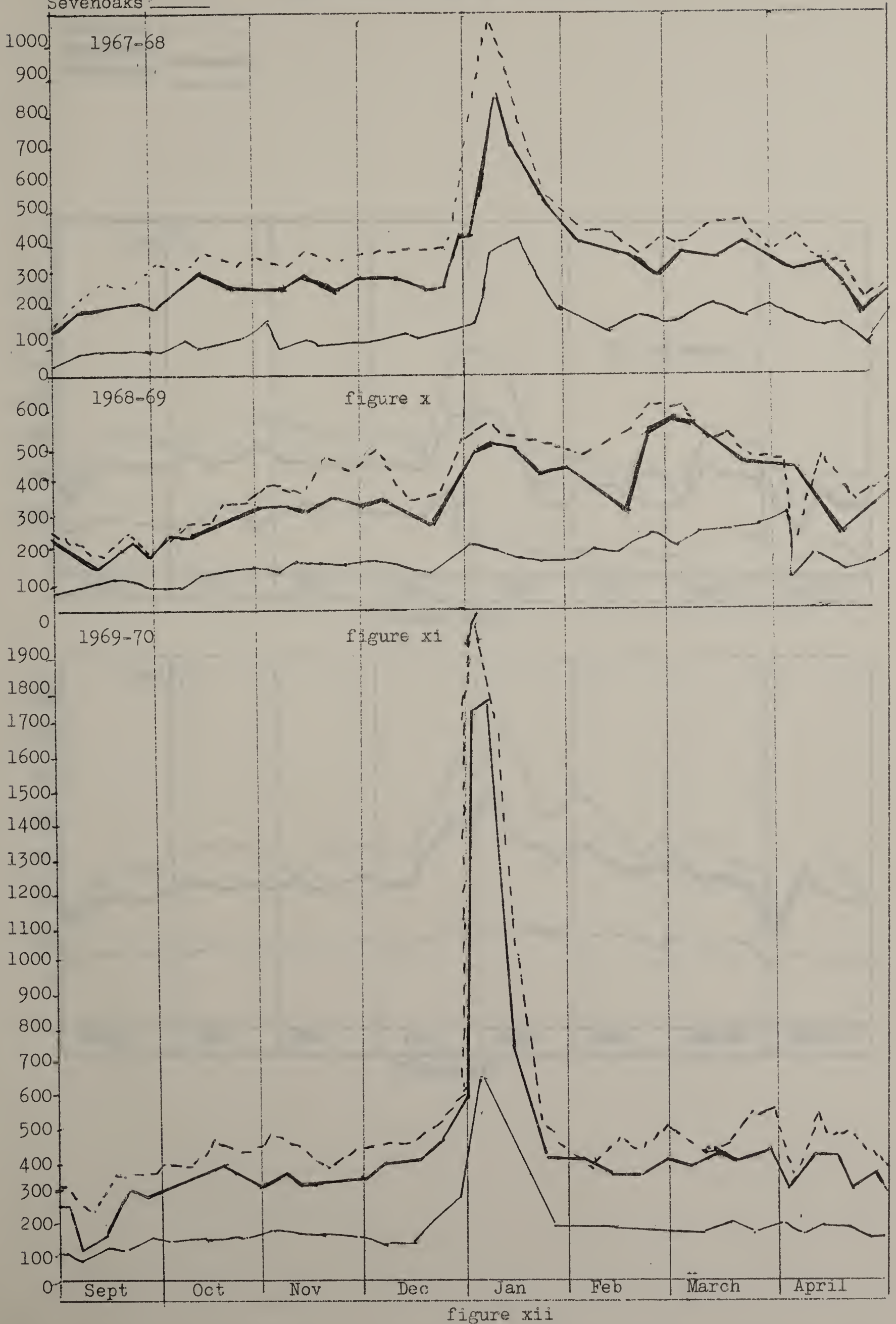


figure ix

FIRST CERTIFICATES OF INCAPACITY

Dartford
Gravesend
Sevenoaks



FIRST CERTIFICATES OF INCAPACITY

Dartford
Gravesend
Sevenoaks

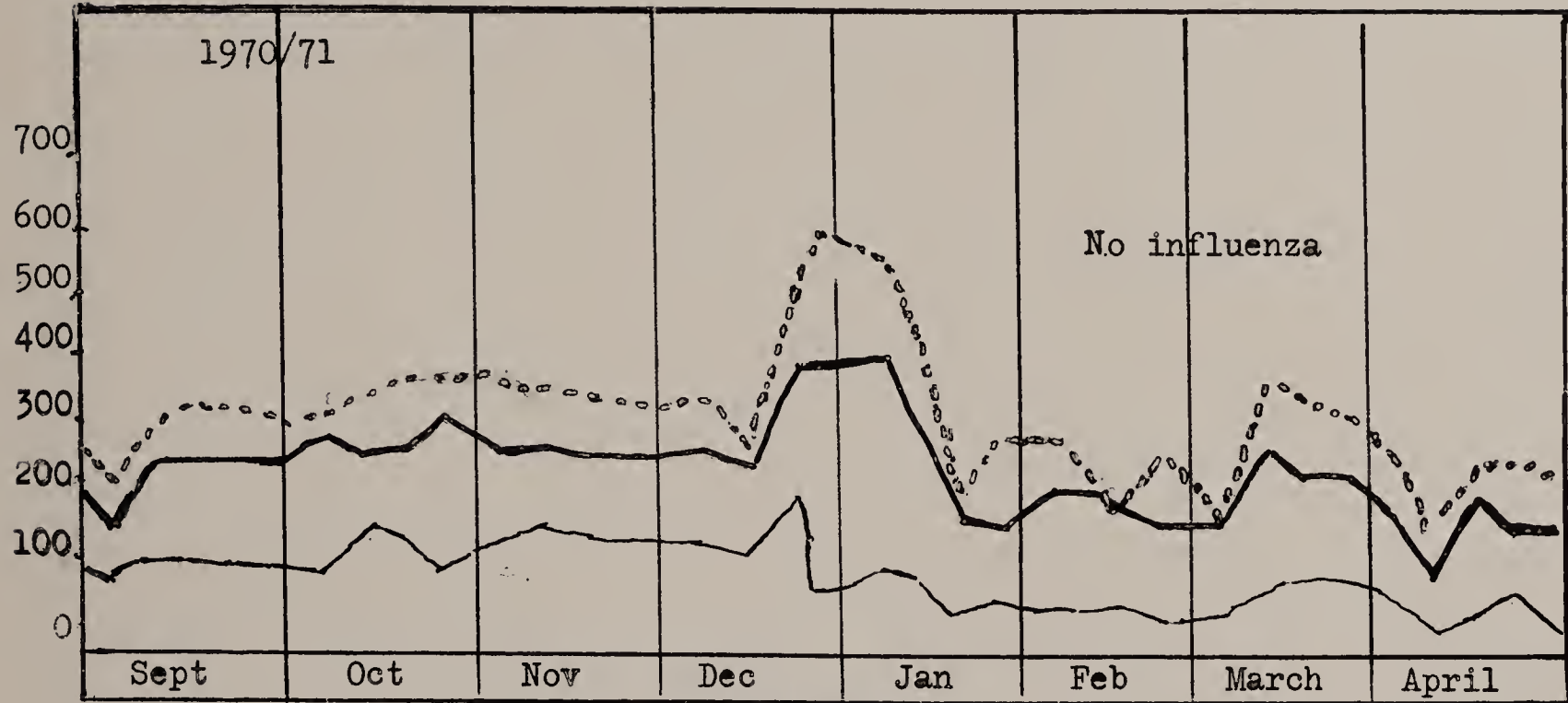


figure xiii

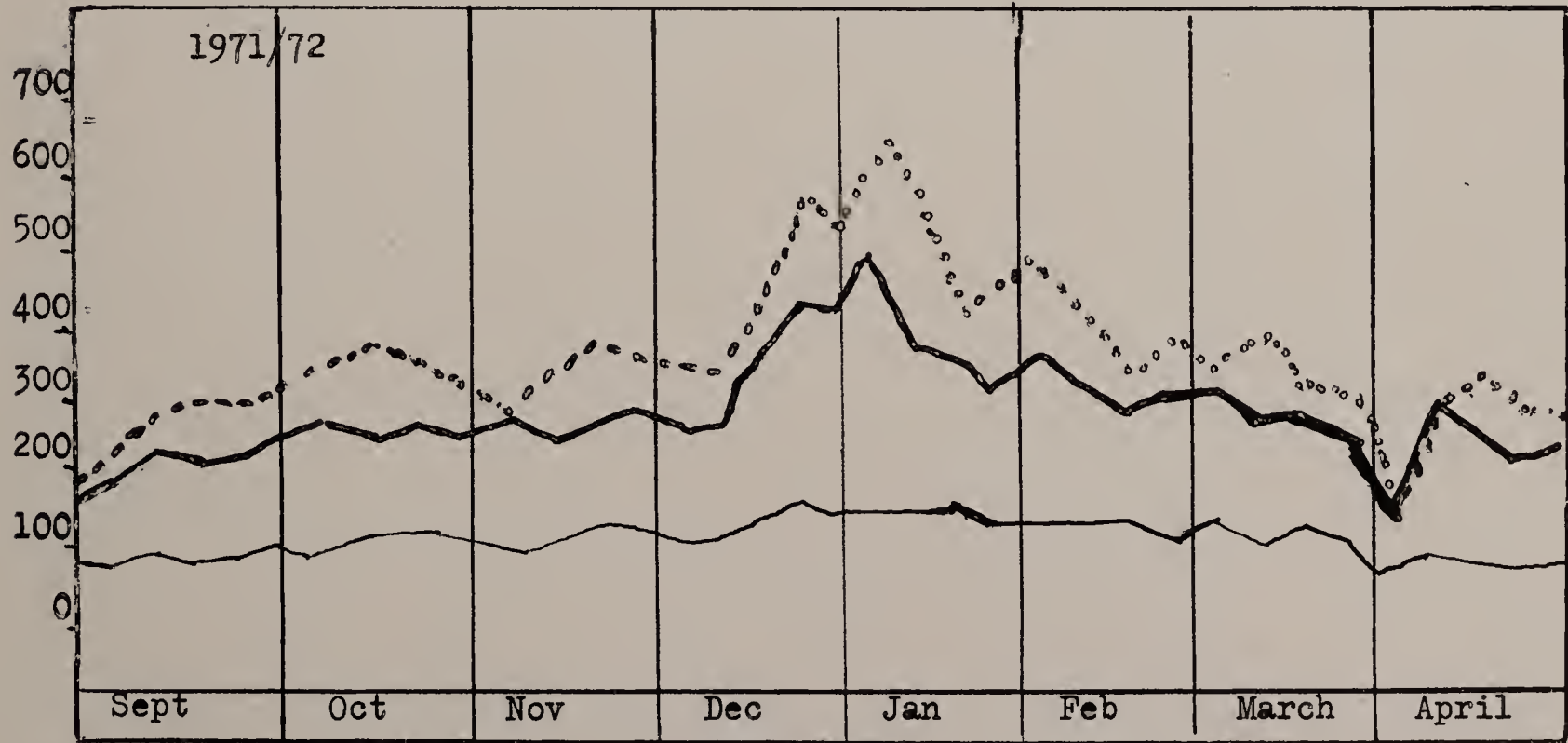


figure xiv

